### CHRISTMAS GOODS NUMBER



# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

SEPTEMBER 14 1963

### **Bonus Terms**

for the price of



available throughout the year from your usual supplier

a profitable counter-line which enhances the reputation of pharmacists who sell it

Supplied as 25 gramme tubes in attractive display outers of 10.



An M&B brand Medical Product

Manufactured by

MAY & BAKER LTD

Pharmaceutical Specialities (May & Baker) Ltd Dagenham





PRESENT THE VERY LATEST IN

# Handbag Perfume Sprays





### DRESSING TABLE SIZES ARE AVAILABLE ON BOTH MODELS



Two enchanting perfume sprays that promise certain sales, **not only at Christmas but throughout the year!** These most attractive, beautifully styled handbag accessories are completely leak-proof, compact in size and reasonably priced.

\*Please note:- Instructions for use are enclosed in the packs.

ALFRED FRANKS & BARTLETT CO. LTD., 226/228, GRAY'S INN ROAD, LONDON, W.C.1.



# Solprin



NEUTRAL SOLUBLE ASPIRIN

# Codis



SOLUBLE ASPIRIN, PHENACETIN AND CODEINE

# Cafdis



SOLUBLE ASPIRIN, PHENACETIN AND CAFFEINE

### Their place to-day

General acceptance won by Solprin, Codis and Cafdis is due to their aspirin content being soluble and substantially neutral. Consequently, all three are quick acting and are far less likely to upset the stomach.

Medical opinion to-day is overwhelmingly in support of soluble aspirin. This is why doctors prescribe Solprin, Codis or Cafdis, and this is why the chemist dispenses them so often.

RECKITT & SONS LTD.
PHARMACEUTICAL DEPARTMENT, HULL

### **CLINICALLY-PROVEN REVOLUTIONA**



# Aquatheron

medicated bath liquid

makes water a therapeutic treatment for your skin

### **AQUATHERON** - NEW MEDICATED BATH LIQUID

'Aquatheron' is a unique combination of gentle cleansers, soothing oils, moisturizers and germ-killing hexachlorophene. 'Aquatheron' helps solve dryness, itching, eczema, nappy rash, detergent irritation and keeps skin soft, supple and free from infections. 'Aquatheron' is not just another scented bath oil. 'Aquatheron' actually fights germs and makes water a therapeutic treatment for skin. 'Aquatheron' is not a specialooccasion

purchase — but a regular health habit.

### OACH TO FAMILY SKIN CARE

# Aquatheron

# opens up a new area of profit for you

ERE'S WHY AQUATHERON HAS A UNIQUE FORMULA PROVED EFFECTIVE IN 88% TEST CASES.

AQUATHERON IS BENEFICIAL FOR EVERY MEMBER OF THE FAMILY.

**AQUATHERON IS A REGULAR BATH HABIT** NOT A SPECIAL OCCASION PURCHASE.







'Aquatheron' will be heavily promoted with whole pages in all 10 of the top quality Women's Magazines throughout the year - plus - the Reader's Digest - beginning in October. Aquatheron will be supported by strong point-of-sale material including free leaflets-"A New Approach to Skin Care," and for you and your assistants there will be an eight page brochure giving you all the background to this exciting new product.

'Aquatheron' will be sold only to Chemists. Your Menley & James representatives will be calling to give you full details of introductory Trade Terms, Sales Promotion and Advertising Programmes that will bring customers into your shop asking for 'Aquatheron'.

Aquatheron

makes water a therapeutic treatment for your skin

### **IMPORTANT**

Re: Journal of American Chemical Society Vol. 74. of 5th October, 1952.

Would any person who received or possessed a copy of the above-mentioned issue of the Journal of American Chemical Society on or before the 22nd October, 1952, please communicate immediately with the undersigned.

Further, would any person who was a subscriber to the Journal of American Chemical Society in the year 1952, likewise communicate with the undersigned.

Tringhams,

23 Portman Square, LONDON, W.1.

### Attractive ADVERTISING NOVELTIES FOR CHRISTMAS GIFTS

Pens, Diaries and various other attractive Lines with your advert. Write for fully illustrated catalogue to

VENIS & CO. LTD.

348 OLD STREET, LONDON, E.C.2

or Phone; SHOreditch 7217/8 for our Representative to call,





FROMENT Announce **DOUBLE SIZE FAMILY PACK** INEST VALUE MORE STABILIZED WHEAT GERM AT LESS COST. Stock-up NOW! FOR MERVES

This new pack is in addition to the usual sizes of 3|- & 1|7½d.

STABILIZED PURE WHEAT GERM

JOHN H. HERON LTD., Hook Road Mills, Goole, Yorks.

LESLIE MARTYN LTD., 34 Dalston Lane, London, E.8 BLANCHARD'S PILLS (FOR OVER 70 YEARS THE BEST OF ALL PILLS FOR WOMEN OF ALL AGES)

ON P.A.T.A. 1/5½ size (Inc. Tax) at 10/- per doz. Tax per Doz. 2/6

WHOLESALE TERMS

Quantities of Six Dozen and over—12 % & 21 % 30 days , , , , 60 , , , , , —15 % & 21 % 30 days

RETAIL TERMS 1/5½d. size (inc. tax) at 10/- per doz. (plus 2/6 tax)
3/7d. size (inc. tax) at 27/- per doz. (plus 7/0d. tax) on P.A.T.A.

Quantities of Three Dozen and over—5%
Discount and additional 2 % Cash 30 days direct

### HARDWOOD APPLICATORS

**IMMEDIATE DELIVERY** FROM LONDON **STOCKS** 

100 Boxes and over 3/2 per box, 50 to 99 boxes 3/6 per box, under 50 boxes 4/- per box Standard pack, 6 gross to box.

### TONGUE DEPRESSORS

LOWEST PRICES SINCE THE WAR

Size 6 in. × ½ in. × 2 mm. thick. Prime Hardwood perfectly finished Boxed 100's. Minimum order 10,000 Wholesale Houses only supplied

TIMBER & PLASTICS ASHWOOD

Specialists in Veeeer & Plywood Products for all Trades

PLYFA HOUSE • LEVEN ROAD • LONDON, E.14

Tel.: EASt 6343-6461 Cables: ASHTIM, LONDON

HOME & GENERAL PACKAGING **EXPORT** STRIP PACKING • LIQUID FILLING TO YOUR REQUIREMENTS MEDOPHARMA LTD. MANUFACTURING CHEMISTS, 158-162 TOOTING HIGH ST, LONDON, S.W.17. BAL. 2712.

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### The DISTINCTIVE PACK IS YOUR SILENT SALESMAN

During the season of Coughs and Colds a display of Ayrton's Cough Lines will produce Positive Sales.

Bonus terms on offer during September! Our representative will give you details, or send for a copy of the "Ayrton Review," a monthly publication of topical selling lines for the Pharmacist.

AYRTON, SAUNDERS & CO. LTD · LIVERPOOL, PRESTATYN & DUBLIN

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### A PROVEN SERVICE

## any quantity, anywhere

### \* DISINFECTANTS

**PINEOLITE** Pine Disinfectant, Coeffs. R.W.3 to 6 and concentrates.

STERILITE White Disinfectant, BSS R.W. values and nonstaining qualities.

**CRESOLOX** Black Disinfectant, R.W.5/6 and R.W.18/20. **STEROLAY** Sanitary Fluids to BSS.2893.

### \* ANTISEPTICS

BRISTOL Hospital Disinfectant, R.W.7/8.
LYSOL B.P. LIQUOR CHLOROXYLENOLIS B.P.

# \* DETERGENTS AND LIQUID SOAPS

KLENZITE Liquid Detergent.

BUTLER'S Liquid Soap, non-perfumed and perfumed.

### PRESENTATION

Our products are available in sachets, bottles, tins and drums. We also deliver by road tank wagon.

### TECHNICAL SERVICE DEPARTMENT

is situated at our Head Office, and welcomes your enquiries either directly or through our Branch addresses.

Established in 1843 as Distillers of Coal Tar, we were among the earliest producers of Carbolic Acid Disinfectants and Antiseptics. Today our range includes the more sophisticated preparations based upon Chlorinated Phenols, in addition to the traditional items.

We have been suppliers for many years to Her Majesty's Government Departments and to Hospitals and Municipal Authorities at home and overseas.

The Butler Range is comprehensive and includes Cresolox Black and Sterilite White Disinfectants conforming to BSS.2462/1961-all Groups.

Ministry of Agriculture Approval for use under the Diseases of Animals Acts has been secured for both Cresolox and Sterilite Disinfectants at stated dilution ratios up to 1-99.



### WM. BUTLER & CO. (BRISTOL) LIMITED

Head Office: ST. PHILIPS, BRISTOL 2. Tel: 77081/6

London Office: 31 CISSBURY RING NORTH, WOODSIDE PARK, N.12. Tel: Hillside 7351

Birmingham Depot: WORCESTER WHARF, BIRMINGHAM. Tel: Midland 1266/7

# EARN 10% DISPLAY DISCOUNT ON RADIAN PRODUCTS NOW!

Make sure you profit from this special Autumn Offer—exclusive to Chemists



A typical £3 parcel—

For a £3 order (exc. P.T.) of any combination of ASPELLIN, RADIAN or RADIOL products, you earn an immediate 10% extra display discount. This is in addition to the usual generous profit margin on all Radian products, and with your order you receive attractive display material which increases demand by stimulating reminder sales and impulse purchases.

Stockists of RADIAN products are supported by year-round, national advertising stressing the benefits of Radian treatment for all rheumatic conditions. measures less than ONE CUBIC FOOT

ORDER (Closing date 30th November, 1963)
DISPLAY AND REAP THE PROFITS FROM

THIS COMPREHENSIVE RANGE:-

RADIAN-B Aspirin Spirit Liniment
RADIAN-a Spirit Dressing
RADIAN SOOTHING CREAM
RADIAN MASSAGE CREAM
RADIAN BATH SALTS
RADIAN OVALS
RADIOL Veterinary Products
—ASPELLIN (E.C.10 only)

Send your orders to:

### RADIOL CHEMICALS LTD.

Radian House, 78 Upper Richmond Road, London, S.W.15. Tel: VANdyke 1642 & 2692

SCOTTISH AGENT: Donald Macaulay Ltd., 22 King Street, Trongate, Glasgow C.I. Tel: Glasgow Bell 1909

N. IRELAND AGENT: Groves of Ireland, 54 Great Victoria Street, Belfast 2. Tel: Belfast 29333

### Time for the right name

These selected, profitable preparations are excellent late

autumn and winter lines:



\* Black Currant Linctus (new formula)
COLD DISCS

\* Baby Vapour Rub

\* Junior Aspirin

\* RHEUMATIC CREAM

\* Available under Chemist's Own Name — Own Brand pack with counter display cards.

May we send you Trade prices and samples?

ARTHUR H. COX & CO. LTD., BRIGHTON, SUSSEX

# CHRISTMAS GIFTS

Why not a Pure Bristle or a Pure Badger Vulfix Shaving Brush

A USEFUL GIFT FOR FATHER OR SON

Write and ask for our latest Brochure and details of Special Parcels

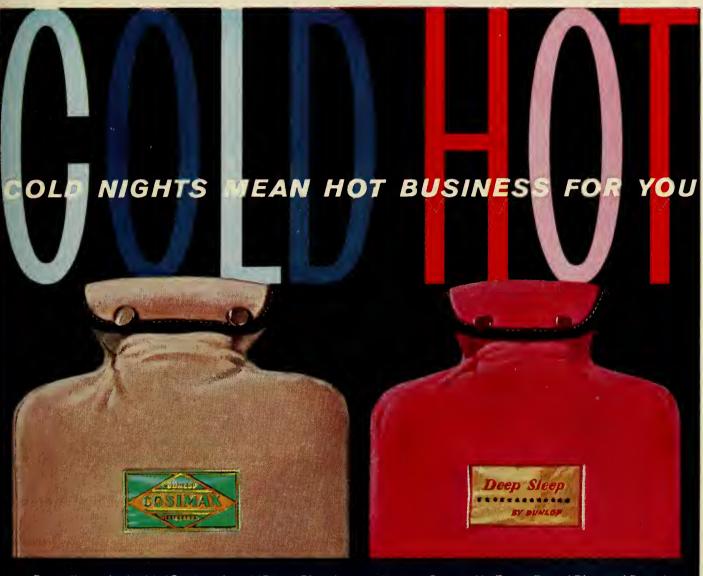
PROGRESS SHAVING BRUSH (Vulfix) Ltd.

Peel Road, DOUGLAS, Isle of Man.

and

PROGRESS SHAVING BRUSH (Vulfix) Ltd.

143 New Bond Street, LONDON W.I.



Be well stocked with 'Cosimax' and 'Deep Sleep', the ultimate in hot water bottle luxury. Made of seamless latex with delightful velvety covers, these are the only hot water bottles designed to be filled with boiling water. Powerful full colour advertising support will appear in leading women's magazines.

COSIMAX Covered in Fawn, Pastel Blue and Pastel Pink and individually packed in its own distinctive box. An extra-large bottle. Retail price 32/6d.

DEEP SLEEP Available in Primrose and Cherry Red covers. Packed singly in an attractive display carton. Retail price 27/6d.



## A NEW PRODUCT

of great popular appeal



# PHILIPS HOME BARBER

(for use with Floating Head models of the 'Philishave' only)



This handy attachment to either model of the 'Philishave' with Floating Heads will be particularly useful not only for men but for all the family -and especially for children. Expert trimming and haircutting can be carried out with a minimum of practice. The clipper attachment and the two guide combs (for tapering shorter and longer hair respectively) are neatly contained in a sleek case. £2.2.0

There's a model for every man in

### THE WORLD'S GREATEST RANGE OF ELECTRIC SHAVERS

PHILISHAVE

ENVOY with Floating Heads

In this new luxury shaver, 'Philishave' Rotary Action and Floating Heads give even more efficient 'Personal Touch' shaving. AC/DC 100-130v. and 200-240v. £8.12.6







**PHILISHAVE** with Floating Heads

The superbly successful Floating Heads shaver AC/DC 100-130v.and200-240v.£7.15.0



**PHILISHAVE** Superjet

Built for speed and efficiency. Magnificent value. AC, DC 110-130v. and 200-250v. £6.6.0



**PHILISHAVE Battery Model** 

Gives superb Rotary Action shaving anywhere. DC 2-1½v. £5.12.6 batteries.

# **PHILIPS** HEALTH LAMPS

### MORE THAN EVER IN DEMAND



In Britain lack of sunshine is at the root of many health troubles. The 'Ultraphil' is the ideal solution. For it brings 'Alpine Sunshine'—similar to that found in the pure, clear air of mountain resorts-right into the home. It counteracts 'run-down' conditions, builds up the body's resistance to disease, colds, 'flu, etc. It stimulates the formation of Vitamin D in the body. The stylish new stand is extremely convenient and allows the rays to be directed precisely where they are needed. Complete with goggles for use during treatment.

200-220v. 220-240v. AC only

TYPE KL 2866: £8.8.0.

Philips Health Lamps must only be supplied to customers in possession of a signed medical certificate.



### PHILIPS INFRAPHIL

Invaluable for the relief of rheumatism, lumbago, colds, inflammation, etc. Sportsmen and athletes also find it helpful for the treatment of muscular strains and stiffness-and, as an aid to massage, for keeping on top form. The Concentrated Beam technique provides infra-red heat in the most effective, convenient way. The Concentrated Beam penetrates the skin faster to give greater relief right at the centre of the pain. The 'Infraphil' can be placed on any flat surface, or mounted on the wall, and the beam directed to reach any part of AC/DC 210v. 220-230v. 240v. 250v. the body.

TYPE KL 7500: £4.17.6.







PHILIPS -the friend of the family

PHILIPS ELECTRICAL LIMITED · CENTURY HOUSE · SHAFTESBURY AVENUE · LONDON · W.C.2



POTTER'S
CATARRH
PASTILLES

A relief for COUGHS, COLDS & HAY FEVER

Allow a pastille to dissolve slowly in the mouth as required, breathing through the nose to enable the healing properties to act directly upon the respiratory system.



yp 0 02 Creasot 0 ? ea 0 5 Basis to 100 0

TTER & CLARKE LTD : BARKING - ESSEX - ENGL

ONE FREE TIN IN EVERY DOZEN

OFFER OPEN ONLY FROM 2nd SEPTEMBER TO 31st OCTOBER, 1963

PASTILLE	TRADE PRICE	PURCHASE TAX	RETAIL SELLING
	(DOZEN)	(DOZEN)	PRICE (EACH)
Potter's Catarrh Pastilles & Potter's Crystallised Catarrh Pastilles	15/8d.	3/11d.	2/3d.

BONUS TERMS: On minimum orders of 3 dozen tins, one FREE tin in every dozen. i.e. 36 tins charged as 33 and pro rata for larger quantities.

ORDER YOUR STOCKS NOW-FROM WHOLESALERS ONLY PLEASE Sustained advertising at peak selling period

POTTER & CLARKE LTD . RIVER ROAD . BARKING . ESSEX



193. TWIN-PACK BATH CRYSTAL Two small decorate French jars (one pin-blue) of perfumed bar crystals in gay gift pass

AMBRAY BATH CRYSTALS









# AMBRAY **Toiletries**



In the start at only 2/11





Exclusive of the Four transfer of the bull sales this Christmas to show you the full BLUE ROSE range

# ANNOUNCING NEW MEROCETS!

The throat lozenges which are more effective for your customers and more profitable for you



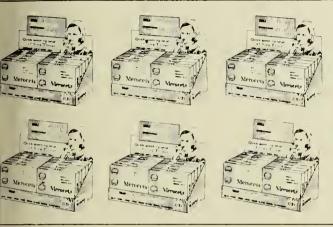
GREAT VALUE! Merocets retail at 2/3d. for a carton of 16 lozenges, hygienically seale in attractive foil strips.

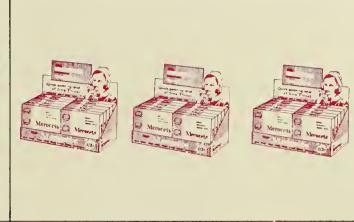
EFFECTIVE! Merocets' main constituent is cetylpyridinium ehloride—aeknowledge by bacteriologists as the most effective antiseptic for the mouth and throat. Pleasar tasting Merocets can be safely and confidently recommended for customers of all age

PROFITABLE! In addition to our normal attractive discount of  $33\frac{1}{3}\%$  to retail chemis we are offering YOU outstanding Introductory Display Bonus terms for the remaind of September.

YOU BUY

### YOU RECEIVE FREE





ust look at this example! outers of 12 cartons yield Bonus for display (36 free at 2/3)

£2 14 0d. profit £4 1 0d. free

### OUTLAY OF £5 8 0d. YIELDS £6150d. PROFIT

Don't worry, our arithmetic is quite correct!

You must agree that this Merocets offer of 18 cartons or every dozen ordered (minimum order of 2 dozen artons) is too good to miss, so complete the coupon now—

o Merrell-National (Laboratories) Ltd., 20 Savile Row, London, W.1	
y Name and address is:	
he Name and address of my usual wholesaler is:	••••
lease supplydisplay outers of 12 cartons of Merocets through the above wholesaler under the Merocets Introductory Display Bonus, entitling me to 6 cartons free with every dozen ord	r the



The art of

Miss Beatson

is to make quality products irresistibly attractive in quality glass containers



BHAISON - bottles and glass containers that SELL

BEATSON, CLARK & CO. LTD.

ROTHERHAM · YORKSHIRE

Telephone: Rotherham 3188



# SILCOT have created some Non-stop National Advertis

OW the only feminine towel in the world to bring you new three-way confidence

that keeps you completely

A SECRET DEODORANT) (MOISTURE-PROOF PROTECTION) (NEW SUPER-SOFTNESS) that gives you comfort



For you, SILCOT have created a fresh idea in feminine towelshygienically deodorized towels that keep you 'petal fresh', safely protected for the busy life you lead. You'll find these superbly soft cotton wool towels are totally absorbent. Totally safe. Gently rounded and thoughtfully enclosed in silkiest knitted rayon for total comfort. Next time, buy the only feminine towel in the world that brings you new three-way confidence!

by . likel - for feminine confidence

# ng NEW in feminine towels! g begins on September 21st!

As you know, six months ago SILCOT introduced a new range . . . *sil-kini san-briefs, towels* and *pads*. Already this range has gained wide acceptance!

Now SILCOT are introducing something else completely new... Silcot Hygienically Deodorized Feminine Towels. They will be advertised non-stop to your women customers in the National Women's Press, beginning September 21st. As you will see from the consumer ad reproduced at the left, these arresting full-page advertisements will create interest among your customers... sales for you!

You will find it consistently profitable to stock and display the new ranges nationally advertised as being...

by Silcot —for feminine confidence

Macdonald & Son Limited

PORTLAND MILL · ASHTON-UNDER-LYNE · LANCS
ONE SALISBURY SQUARE · FLEET STREET · LONDON E.C.4



Since Antussin was introduced it has become established as the product that "Calms the nerves that make you cough". This season 3 new products are being introduced:

CHILDREN'S ANTUSSIN a pleasant-tasting formula specially designed for the expanding children's market;

ADULT'S DOUBLE STRENGTH ANTUSSIN the new "double sure" cough treatment;

**ANTUSSIN CHEWABLE CAPSULES** containing liquid Antussin—the only product of its kind on the market.

ANTUSSIN LEADS AGAIN

ANTUSSIN, the scientific cough treatment containing dextromethorphan—available at 4/1 and 7/4.



TOBAL LABORATORIES LIG

Antussin

# ONUS (12 for 10 rate)

1 doz. NEW Children's Antussin 4/-

++++++++++

3 doz. NEW Adult's "Double Strength" Antussin 4/6 I doz. NEW Adult's "Double Strength" Antussin 7/6

2 doz. NEW Antussin Chewable Capsules 4/-

CHEMIST PRICE: £12.7.6 PROFIT £7.8.6



### BONUS (12 for 11 rate)

Bonus parcels cannot be split but orders for dozens of any product will be supplied at 12 for 11 rate until 31st October, 1963. Order your winter's supply and get 1 FREE for every dozen you order.

TOBAL LABORATORIES LTD, QUEENBOROUGH, KENT







### Link your shop with Nationwide TV support!

Antussin now present a range of cough treatment products which will be profitable for you to stock. Hard-selling, peak-spot TV commercials will appear throughout the whole autumn and winter. Be prepared to meet the demand they will create by taking advantage of one of this season's bonus offers. You can buy all your winter's requirements of these new products at the 'parcel' rate of 12 for 10. As these parcels cannot be split, orders of dozens of ANY product or size will be supplied at 12 for 11 rate until 31st October, 1963. Stock, display and sell this outstanding new range of ANTUSSIN products—they are available only from chemists.

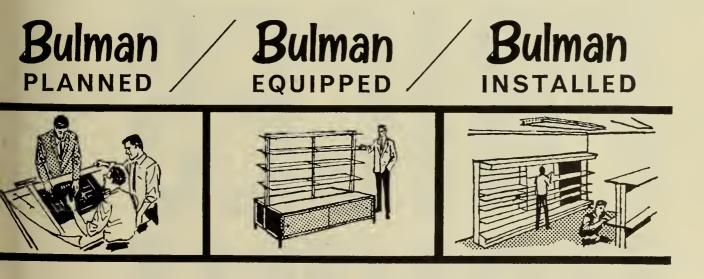
++++	Complete and send TOBAL LABORA Queenborough,		+ +	++
PLEASE SUPPLY				
BONUS PARCELS	of NEW Antussir	nproducts at £12	.7.6 each during	October
Doz. Antussin	4/1 size	Doz. Ad	dult's Antussin	4/6 size
Doz. Antussin	7/4 size	Doz. A	dult's Antussin	7/6 size
Doz. Children's Anti	ussin 4/- size	Doz. Aı	ntussin Capsules	4/- size
NAMEADDRESS			These bonus off launch the new, products, will c 31st October, 19	Antussin lose on



# our shop for selling

Let air into your shop layout and more goods go out of the door leaving more profit behind in the till! This is what happens from the moment you make your many non-pharmaceutical lines accessible to your customers for self-selection. And here's how you do it—call in Bulman to advise and provide a plan to meet your precise needs. Bulman free standing self-selection units are standard equipment. Other units—for accommodating ethical products, prescription service, beauty preparations, photo equipment, and other serviced items—include designs specially made for the Chemist's shop.

The secret of it all is in Bulmans knowledge and experience of shop planning for efficient merchandising in every branch of retail selling. It's all yours—to make your business more pleasurable and more profitable. Write for full details to the address below.



### STORE EQUIPMENT) LIMITED

PROMENADE CHELTENHAM GLOUCESTERSHIRE Phone: Cheltenham 52649

# IMPORTANT ANNOUNCEMENT FROM KIMBERLY-CLARK

Since pioneering the original development of the Facial Tissue market in Great Britain, we, Kimberly-Clark, have set as our constant objective the permanent and effective reduction in the price of Kleenex\* tissues. Now, we are pleased to announce that, as our own contribution to the further rapid expansion of your facial tissues business—

Effective 16th September, 1963, the following reductions in the CONSUMER PRICE of Kleenex tissues will apply:



Kleenex Regular Size 100 2-ply tissues reduced by 3

FROM 2/-TO 1/9

Kleenex Economy Size 150 2-ply tissues reduced by 3

FROM 2/9 TO 2/6

Kleenex Handy Size 150 2-ply tissues reduced by **2**<sup>D</sup>

FROM 1/11 TO 1/9

THE CONSUMER PRICE OF ALL OTHER KLEENEX TISSUE PACKS REMAINS UNCHANGED.

# PROFIT MARGINS AND NORMAL QUANTITY DISCOUNTS WILL BE MAINTAINED

Effective 9th September, 1963, new trade prices covering these price reductions will apply.

STARTING 15th SEPTEMBER, large spaces in "THE PEOPLE", "SUNDAY EXPRESS", "SUNDAY MIRROR" will carry powerful advertisements announcing these important price reductions.

STARTING 15th SEPTEMBER, PEAK TIME TV 30-SECOND SPOTS will carry the same message.

95% of all Housewives will be reached by this advertising

IMPORTANT: Kimberly-Clark guarantee, as part of a generous bonus offer scheme, full compensation against your stocks bought at old prices. Your Kimberly-Clark Representative or Wholesaler will arrange details.

TAKE FULL ADVANTAGE OF THESE REDUCTIONS BY DISPLAYING AND SELLING KLEENEX TISSUES AT NEW PRICES NOW

KIMBERLY-CLARK (18 LTD., LARKFIELD, MAIDSTONE, KENT. TEL: MAIDSTONE 7551 \*REGD. TRADEMARK KIMBERLY-CLARK CORP.



PRICES -

ADOX C.18 36 exposure 35 m.m. 31/9 ADOX C.18 15 exposure 35 m.m. 17/6

ADOX C.18 120 Roll Film

and ADOX NCI7 NEGATIVE FILM For perfect colour prints.

ADOX NC.17 120 Roll Film 10/6 ADOX NC.17 20 exposure 35 m.m. 12/7

ADOX NC.17 36 exposure 35 m.m. 17/-Processing extra.

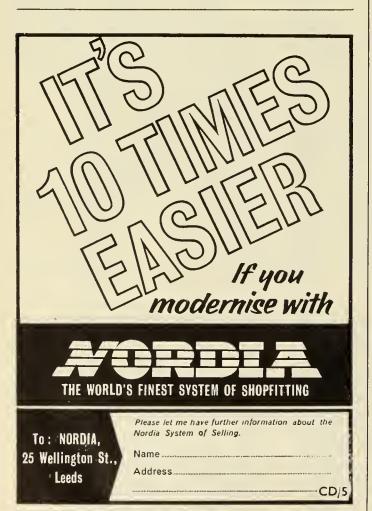
Sole Distributors in the U.K.

C18 COLOUR FILM

ADOX C.18 for True-to-life transparencies - colour perfection, and

crisp, sharp definition.
Super-fast speed rating of 18 DIN
- 50 ASA - 29 Scheiner.
Prices include 24 hour processing in the U.K.

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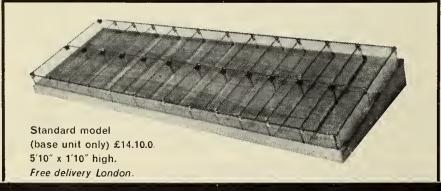
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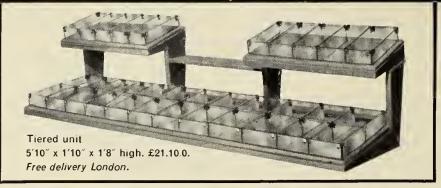
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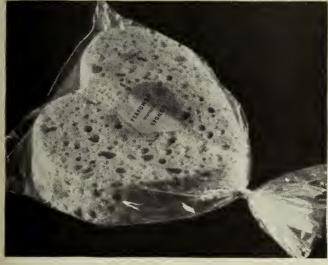
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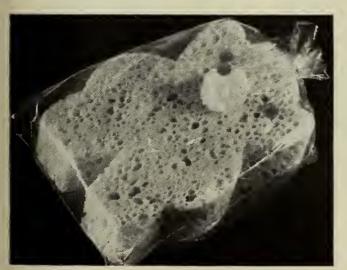
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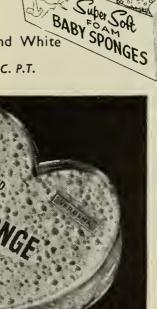
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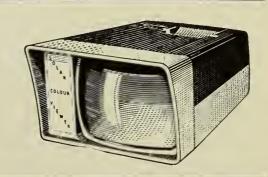
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# The Delafine Bath Crystals Presentation Vase

Filled with delicately perfumed bath crystals, this presentation vase is a beautifully made replica in polythene of a classic Grecian design. Shown here in actual size, the vase is available in pastel blue or pink. Trade terms are generous. Supplies are limited. To take advantage of this classic Christmas line you must order NOW—either through your usual wholesaler or direct to . . .

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\* Coupled film Transport and exposure counter.

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### SUPER 35X

ALL METAL BODY

\* RAPID LEVER WIND

A single stroke advances the film, counts the ex-posure and cocks the

\* LUMINOUS BRIGHT-LINE FRAMEFINDER

> The subject appears suspended within the lines of the frame.

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- ★ All metal.
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TWO-IN-ONE **CAMERA** 

21" x 21" or 18" x 18"

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3-19-6

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Batteries 10d extra



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★ Two Viewing positions



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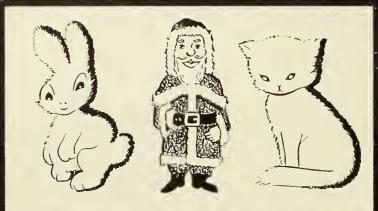
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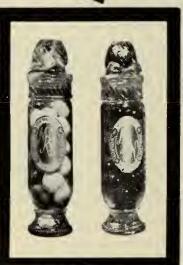
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Jars (own exclusive
bottle). Miniature
soaps containing
Heart, Shells, Pine
Cones or Raspberries. Also Bath
Perfumed Transparent Gems. Bubble
Bath (Rose, Verbena,
Eau de Cologne).

58

60/-	10/-	
84/-	12/6d.	
58/-	8/6d.	
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DOZ. | RETAIL





New England Glass Apothecary Jars. Miniature soaps (Lemons, Limes, Strawberries, Tangerines or Assorted)
Three Tier Jar containing assorted miniature soaps as above. Perfumed Candle (72 hour burning time) in Rose, Hyacinth and Lavender fragrances.

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102/-	15/-
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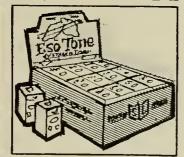
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ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 180

September 14, 1963

No. 4361

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Volume 180

SEPTEMBER 14, 1963

No. 4361

## "Fair Trade" in U.S.

STATE SUPREME COURT RULES VALID

IN a recent U.S. legal case involving an attempt by certain retailers to en-join Eli Lilly & Co. and the Upjohn Co. from enforcing their "fair trade" (price-maintenance) policy, the Ohio supreme court upheld the validity of the State's revised fair trade law, which replaces a measure previously declared unconstitutional. In its judgment the Court said: "Even to the most casual observer, it is readily apparent that the small independent merchant is gradually being forced out of business through the operation of the large merchandising establishments. Even without discounting fair trade items, these large merchants, through their tremendous buying power, are able by quantity buying to legitimately undersell the small merchant and to attract his trade. When in addition to this legitimate underselling, the discounter uses fair trade items as a 'come-on,' selling items at cost or even at a loss to entice customers into his store, it is apparent that the small merchant will be doomed; he cannot afford to compete on this level, and his customers will go to the discounter to buy. Yet, this small independent merchant is a necessary and integral part of the community. It is to him that the consumer turns for little-called-for items that the discounter does not choose to handle, and quite frequently it is to him that the customer turns for the personal service not rendered by the large discount establishments. Yet, as a result of the discounting of fair trade merchandise, so much of his trade is being drained from him that he cannot afford to continue his business. Clearly afford to continue his business. Clearly, it is to the advantage of the general public that such establishments be preserved."

## **Oxygen Equipment**

A RULING ON SERVICING

THAT the servicing of oxygen equipment on loan under the National Health Service is an integral part of the loan, and that there is no justification for return of the equipment and the commencement of a new loan purely for servicing purposes, is given as the view of a Midlands Executive Council reported in the September issue of the Executive Council. A chemist had, with the doctor's approval, withdrawn equipment from four patients while they had been on holiday, or at a convalescent home, because regular use, he said, caused it to become un-

serviceable. The patients had then been reissued with equipment and a new loan period commenced, so increasing the payment due from the Council compared with that due in the case of a continuous loan. Having considered the chemist's observations, the Council confirmed its decision that the circumstances constituted a continuous loan and that the overpayment must be recovered from the chemist.

## Nielsen Index

CONTINUED TURNOVER GROWTH RETAIL chemists' total average weekly turnover during the May-June period was £5,712,000, an increase of 5.7 per

was £5,712,000, an increase of 5·7 per cent. over the corresponding period of last year. "National Health Service receipts made the biggest contribution to that percentage, being in total 10 per cent. higher than during May-June 1962," states the Nielsen Drug Index Retailer Report. The average weekly cash sales in retail pharmacies were:—Multiples, £412; large independents, £318; medium independents, £176; small independents, £91. Compared with the corresponding figures for 1960, the increased percentage changes were:—Multiples 15; all independents 9. It was estimated that the multiple pharmacies obtained 38·5 per cent. of the total turnover during the period, whilst the large, medium and small independents obtained 25·4, 19·9, and 16·2 per cent. respectively. The average weekly National Health Service payments per shop were:—Large independents, £190; multiples, £157; medium independents, £125; small independents, £76. During May independent pharmacies dispensed 68·2 per cent. of the National Health Service prescriptions (an average of 1,117 per shop per month), whilst the

multiple pharmacies dispensed 31.8 per cent. (an average of 1,591 prescriptions per shop per month). National Health Service payments amounted to 26.8 per cent. of the total turnover in multiple pharmacies and 38.2 in independents.

## **Retail Sales**

**BOARD OF TRADE FIGURES** 

RECENTLY issued Board of Trade figures show that the sales of chemists' goods by independent retailers in July were 5.4 per cent. higher than in June, and 4 per cent. higher than in July 1962. Multiple retailers' sales were 1.8 per cent. higher in July than in June, and 7 per cent. higher compared with July 1962. Sales by Co-operative Societies were 5 per cent. higher in July than in June and 7 per cent. higher than in July 1962. The figures do not allow for receipts under the National Health Service.

## **Antihistamines**

LOCAL APPLICATIONS REVIEWED

THE use of antihistamines for local application is the subject of a review in the September 6 issue of the *Drug and Therapeutics Bulletin*, published by Consumers' Association, 14 Buckingham Street, London, W.C.2. It states that antihistamines applied locally can penetrate the unbroken skin and appear to antagonise histamine-induced whealing and erythema, provided it is not fully developed, but that in non-histamine conditions they probably owe their effect to a local anæsthetic action. Evidence for their nasal use in hay fever and rhinitis is said to be unconvincing, and for ocular use, other drugs are considered equally effective or better than antihistamines. There is a





HANDING OVER: Left, Dr. W. Mitchell being invested with the British Pharmaceutical Conference chairman's chain of office by the retiring chairman (Mr. H. G. Rolfe), Right, Dr. Mitchell presents Mr. Rolfe with a replica of the badge,

warning against the risk of sensitisation, which is greater when the substance is applied to broken skin or for longer than a few days. It is concluded that antihistamines may be useful for *immediate* treatment of insect bites but that they should be avoided in burns, sunburn and prickly heat, as should other local anæsthetics. Also reviewed in the issue are Buscopan and Phenthrane.

## **Export Documents**

ATTEMPTS AT SIMPLIFICATION

ON show at the exhibition on Export Documentation staged by the Westminster Chamber of Commerce at Mitre House, 177 Regent Street, London, W.I, September 11-13, were some of the specimen forms being considered by the joint liaison committee on documents used in the international carriage of goods, a committee set up by the Board of Trade in 1962 to bring together the various interests working for the simplification and standardisation of export forms. Two of the panels at the Westminster Chamber of Commerce exhibition demonstrated some possible solutions being put to the joint liaison committee, and invited exporters to get in touch with their representatives on the committee.

## **Overseas Trade Policy**

FEDERATION REVIEWS PROBLEMS

THE Federation of British Industries is convinced that the right course for Bri-

tain to pursue is a trade policy which is both liberal in character and broad in scope. That is mentioned in a report "Overseas Trade Policy" published on September 2 by the F.B.I. At the same time it warns the Government and industry that to assume that future trade will bring about the kind of changes that are needed in the economy either automatically or painlessly will not be enough. It must be considered as one aspect of Britain's current economic problems and not in isolation. The report covers three fields: trade, export credit and credit insurance, and over-seas investment. Written in the light of the breakdown of the Brussels negotiations and the National Economic Development Council reports, it forms part of a review by F.B.I. standing committees of current problems and policies. Copies, price 7s. 6d. each, are available from the F.B.I.. 21 Tothill Street, London, S.W.1.

## **Biological Standards**

HEALTH ORGANISATION REPORT

THE fifteenth report of the Expert Committee on Biological Standardisation published as No. 259, 1963, of the World Health Organisation technical report series (H.M. Stationery Office, price 3s. 6d.), is, like its predecessors, devoted mainly to a consideration of the need for international standards of various biological substances and of the progress of collaborative assays already initiated. Under the headings antibiotics, hormones and enzymes.

## A TRADE UNION CRITIC OF THE INDUSTRY

**Attack at Trades Union Congress** 

IN its early days, the drug industry worked for the service of humanity, said Mr. Bob Edwards, M.P. (general secretary, Chemical Workers' Union) on September 5, but today the highest paid money in the industry was a set the paid man in the industry was not the pharmacist but the smart lawyer who wrote legal scriptures so that a drug could be patented and an exclusive monopoly given to one manufacturer. Mr. Edwards was speaking at the Trades Union Congress at Brighton in support of a resolution in the name of his Union, which declared that the drug and pharmaceutical section of the chemical industry should be linked with the National Health Service. The resolution, which was remitted to the General Council, suggested that the link should be: (a) By a policy of general co-ordination making the industry publicly accountable; (b) where necessary by bringing sections of the industry under public ownership; and (c) where practicable, by establishing publicly owned drug and pharmaceutical establishments. The resolution declared that the clinical testing of new drugs was unsatisfactory, created serious hazards for the people, and brought the industry into disrepute. It urged the immediate establishment of a publicly owned testing laboratory, with laboratories in all the main areas of the country, at which all new drugs would be clinically tested by a competent permanent

staff.
"This is the new monopoly age of exclusive patents which make it im-

possible for the people to get lifesaving drugs in the quantity and at the price required." The industry, said Mr. Edwards, had developed with tremendous momentum from a production of £19 millions a year in 1935 to £250 millions in 1962 and, though production had increased fivefold, the number of workers had risen only from 23,000 to 53,000.

to 53,000.
"No industry in the land has made such a mountain of wealth out of the needs of the people. It is highly monopolised—though this is contested. There are 286 firms operating in the industry and nine have increased their profits by over £20 millions and control 31 per cent. of the total production of the industry. Take-over bids, amalgamations and the extension of French, Swiss, and American firms into Britain have created a high degree of concentration of monopoly in the industry, though the figures from the Board of Trade would not give that kind of picture." Mr. Edwards declared that the efforts of a group of hospitals to get cheaper antibiotics abroad had been countered by firms taking the Governments to court under the terms of the Patent Act, Article 46. "It is perfectly clear that if we want to break these monopolies and reduce the drug bill we have to do just what these people say-we must manufacture them ourselves.

No one else spoke on the resolution which, as stated, was remitted to Council to report upon at next year's Congress. antigens and antibodies, more than seventy substances are reviewed and the Committee has established several new international standards and reference preparations. The report has four annexes: requirements for biological substances; international biological standards and international biological reference preparations 1963; proposed international biological standards and international biological preparations, and discontinued international biological standards.

## Warehouse Strike

UNION BACKS 500 BOOTS WORKERS

THE strike of 500 workers at the Stamford Street, London, warehouse of Boots, Ltd. (see C. & D., September 7, p. 214) has been declared official by the national executive of the Transport and General Workers' Union. Negotiations between the employees, the company and the Chemical Employers' Association are continuing. The strike, which affects both warehouse and transport workers, began because twenty women refused to join the Union. The strike is now in its second week.

## **EXPANSION PLANS**

A PIONEER certificate has been granted to I.C.I. (Malaya), Ltd., to build large scale chemical plants in the Federation and a new company is being formed for this purpose, to be called the Chemical Co. of Malaysia, Ltd. The main plant will produce a new type of granular compound fertiliser. The second plant will make caustic soda and chlorine.

THE heavy organic chemicals division of Imperial Chemical Industries, Ltd., is building at Wilton, North Yorks, a new plant for the cracking of naphtha to produce ethylene. By 1965 the company will have raised its total capacity for ethylene to well over 300,000 tons a year, making the unit the largest outside the United States. The ethylene will be used mainly for producing polythene at Wilton. The coproducts propylene and butadiene will be largely used at Wilton and on I.C.I.'s site at Billingham, co. Durham. Part of the feedstock for the new "cracker" will come from the heavy organic chemicals division's crude oil distillation unit recently brought into commission on the North bank of the River Tees.

## WORLD TRADE

Cosmetics in Germany. — Although many increased by  $17\frac{1}{2}$  per cent. in 1962, Germany's own cosmetics industry was able to report a rise in output of 17 per cent., with a 16 per cent. increase in exports.

Australian Duties on Slide Viewers.—Higher duties on slide viewers and projectors are announced from Australia. The viewers are to carry 22½ per cent. British preferential and 40 per cent. otherwise (previous tariff 5 per cent. and 22½ per cent., plus a temporary duty of £A2 10s. each). Most imports have been from Japan, West Germany and Britain.

## IRISH BREVITIES

THE NORTH

PRESCRIPTIONS dispensed in Northern Ireland during May numbered 592,007 (420,089 forms). The total cost was £325,249 (£264,759 net), an average of 131.86d. per prescription (107.33d. net).

## **OVERSEAS NEWS**

**AUSTRALIA** 

**Antibiotics Factory Opened** 

A NEW £A1.5 million antibiotics factory, built by the Cyanamid Drug House of Australia at Derrimut, near Melbourne, was officially opened on August 13. Performing the ceremony was the first patient in Australia to receive Aureomycin, which had been flown from the United States after an urgent broadcast appeal for the drug.

## NEWS IN BRIEF

PLANS have been submitted by Laporte Chemicals, Ltd., Kingsway, Luton, Beds, for an office laboratory block at Ginhouse Lane, Rotherham.

THE seventh International Congress of Roman Catholic Pharmacists, held recently in Lisbon, Portugal, had as its theme "Pharmacy and Social Organisation."

A NUMBER of prices for trusses and two-way stretch elastic net hosiery have been amended in the Drug Tariff, Scotland. The charges were effective as from September 1.

ELECTRIC black storage heaters were exempted from purchase tax on September 11. The exemption applies to both domestic and industrial equipment with a total weight-loading of not less than 70 lb. to the kilowatt.

THE Saturday rota operated by pharmacists in Carlisle, Cumberland, ended on September 7. Few doctors in the area now hold evening surgeries on that day making a service unnecessary after 6 p.m.

PENTAZOCINE, described as a new analgesic as potent as morphine, but without addictive properties, was discussed at the recent annual meeting of the American Chemical Society, according to a report in *The Times* on September 11.

THE physical methods group of the Society for Analytical Chemistry is setting up a thin-layer chromatography discussion panel, open to members and non-members of the Society. Those interested in the panel should notify the Society's secretary, 14 Belgrave Square, London, S.W.1.

THE National Health Service (Travelling Allowances etc.) Regulations, 1963, which came into force on August 12, provide for an increase in the maximum rate of overnight subsistence allowance to £3 3s. a night for the first twenty-one nights of absence and for the rates payable for longer absences to be determined by the Minister.

## SPORT

Bowls.—Scottish Chemists' Bowling Association. The final of the Association's championship was played at Grangemouth Bowling Club's green on September 4. Results: 1, J. Menzies, 21; 2, B. Godfrey, 19. Mr. Menzies retains the Travellers' cup he won in 1962.

## TOPICAL REFLECTIONS

By Xrayser

Drug hazards

A few months ago the Cohen committee that was appointed to assuage public alarm following the tragic discovery that thalidomide had unexpected and disastrous side effects, made its report with suggestions calculated to prevent, so far as possible, a recurrence of the tragic story. The findings were not unanimous, for the pharmacist members of the committee (Mr. J. B. Grosset and Sir Hugh Linstead) were not satisfied that the steps proposed appreciated the urgency of the problem, and their minority dissent from the general terms of the report found a good "Press," both pharmaceutical and lay. It is perhaps insufficiently realised that it was only the outward and visible evidence of the effects of that drug which aroused such public alarm, for it was by no means the first drug which, in the light of experience, was not clothed in the white raiment of innocence. The records abound with evidence of preparations which, less obviously and dramatically than thalidomide, have been discovered to have undesirable properties - properties leading to dependence and addiction. Physical abnormality is a most distressing and tragic condition readily grasped by all. It is not such a simple matter for the lay public to appreciate the less apparent consequences of stimulation and addiction, for those consequences are mental and not physical. It is true that scarcely a day passes without a report of theft, or forgery of prescriptions, or fraudulent misrepresentation, or the selling of stimulating tablets in coffee-bars, but the public tends to dismiss such people, as they were described by Dr. Barnes last week, as "the unstable minority of the population." But such dependence must have had a beginning somewhere. And it must have been with a full realisation of the innumerable examples of recent years that the pharmacist members of the Cohen committee felt that the proposals did not go far enough.

## Good intentions

If the two pharmacists concerned, along with the Council of the Pharmaceutical Society, expected a public acknowledgment of their desire for statutory control, they would be disappointed by the address of the Minister of Health, Mr. Enoch Powell, to the centenary meeting of the British Pharmaceutical Conference in London—but history does not prove that minorities are necessarily wrong. Mr. Powell's attitude is clearly summarised in your editorial comment in which you refer to "machineries based on the belief or hope that good intentions will triumph in the long run." But if Mr. Powell failed to convince, I found the Conference lecture of Dr. J. M. Barnes still less convincing. As the director of the toxicology research unit of the Medical Research Council, Dr. Barnes's knowledge of his specialised subject must carry authority and weight, but I found some of his arguments no more convincing than those of the Minister of Health. Indeed, because of his specialised knowledge, I found them disturbing. For example, he said: "Those who press for legislation on this matter might well pause to consider whether more would not be achieved by enlisting voluntary co-operation." But he also said, when referring to the hesitancy on the part of doctors to prescribe any drugs during the early stages of pregnancy since the thalidomide tragedy: "It is to be hoped that commercial enterprises will follow the doctors by practising a similar hesitation in recommending drugs for this physiological condition.'

## Research

The expert knowledge of Dr. Barnes enabled him to put to his audience the immense difficulties in the way of achieving comparative safety. He said, for example, that manufacturers and distributors had a big share of responsibility so soon as they made use of modern methods of sale persuasion. But he said "No manufacturer has the monopoly of wisdom in devising tests on animals that will provide evidence of the safety of his drug to man. He and his fellow manufacturers will therefore demand that those who wish to use the drugs or approve their distribution will tell them what tests and other research they should initiate in order to provide evidence of safety." Caveat emptor with a difference!

## LEGAL REPORTS

## Stole £500 in Nine Months

A GIRL, aged sixteen, who admitted at Eastbourne juvenile court on August 28 stealing £2 at the chemist's shop at which she was employed, and asked for other offences of stealing photographic equipment and cash worth over £500 to be taken into consideration, was fined a total of £50. The money went on clothes, coffee bars and juke boxes, the girl told the court. Some of the stolen goods she sold to friends at reduced prices; others she gave away. "It is incredible that a girl of your age should have spent over £500 in the nine months you have been stealing," commented the chairman.

## Forged Prescription

AT Glasgow sheriff court on September 5, Elizabeth Hart or Burns, Craigendmuir Street, Glasgow, admitted a charge of uttering a forged prescription for Desbutal capsules. The fiscal told the court that the accused tendered an N.H.S. prescription for 48 Durophet capsules and 48 Desbutal capsules at the pharmacy of Reynolds The Chemists, Ltd., Parson Street, Glasgow, C.4. The dispenser became suspicious regarding the item "Desbutal" as it appeared to be in a different handwriting from the remainder of the prescription. Burns later admitted to the police that she had altered the prescription. She was fined £5 with the alternative of thirty days' imprisonment.

## **COMPANY NEWS**

Previous year's figures in parentheses

DU PONT CO. (UNITED KING-DOM).—Mr. S. Murray Scott, deputy managing director, has been promoted managing director, as from October 1. He succeeds Mr. S. W. McCune III, who returns to the United States on assignment with the parent company in Wilmington, Delaware.

ZWANENBERG - ORGANON. — Zwanenberg-Organon, which is the Dutch parent company of Organon Laboratories, Ltd., has expanded its cosmetic interests by acquiring a large minority interest in Boldoot, an oldestablished Dutch eau-de-Cologne and cosmetics manufacturer. Consideration for the acquisition was an exchange allotment of Zwanenberg shares worth some Fls. 4·2 millions (£420,000) at market prices.

BEECHAM GROUP, LTD., which holds all the ordinary shares of Thomas & Evans, Ltd., is making an offer of £1 nominal 6 per cent. unsecured loan stock, 1978-83, of Beecham Group for each of the 231,535 issued 5½ per cent. redeemable cumulative preference shares of £1 each of Thomas & Evans. The stock issued as a result of the offer will rank for interest from December 1, 1963, and the dividend on the Thomas & Evans preference shares will be paid up to November 30, 1963. The terms of the offer are approved by the board of Thomas & Evans.

VITAMINS, LTD.—The chairman (Mr. H. C. H. Graves) in his annual statement to shareholders, points out that the pharmaceutical industry could make a strong bid for pride of place

in National Productivity Year since its contribution must be evaluated in terms of human life and happiness. "Just as the cost of quality control not infrequently exceeds the cost of manufacture, so also, and to a far greater extent, does the cost of discovering such new drugs, which entails costly research programmes," he adds. For financial statement for year ended March 31 see C. & D., August 3, p. 107.

GIBBS PEPSODENT, LTD. — Mr. J. D. Bisdee (chairman, Thibaud Gibbs & Cie, Paris) has been appointed chairman, Gibbs Pepsodent, Ltd., London, the company which was recently formed to amalgamate the manufacture and marketing of those Unilever toilet preparations in the United Kingdom previously handled by Joseph Watson & Sons, Ltd., D. & W. Gibbs, Ltd., and Pepsodent, Ltd. Mr. Bisdee was successively advertising and sales director of D. & W. Gibbs, Ltd., from 1949 until September, 1955, when he succeeded Mr. S. G. Sweetman as chairman. In November 1958 he went to France to become president director-general of Thibaud Gibbs.

DISTA PRODUCTS, LTD. (a member of the Eli Lilly International Corporation).-Mr. F. D. Randall has been appointed managing director. Mr. Randall joined the Lilly company in 1947, and prior to his new appointment was vice-president of the Elanco division of Lilly at Indianapolis, U.S.A. The following appointments have been made within the sales division of the company: Messrs. T. H. Bennett, M.P.S. (director of marketing); J. Paton, M.P.S. (marketing manager); T. W. Webster, M.P.S. (domestic sales manager); W. A. A. Dutton, M.I.A.M.A. (head of advertising); L. W. Goulding, M.P.S. (head of product planning and development); A. A. Koch (head of sales administration) and R. F. Peacock (head of market research). It is also announced that, with effect from September 1, the sales division of the company, operating from the offices at Fleming Road, Speke, Liverpool, 24, although warehouse facilities will continue to be available at Wimbledon.

## **BUSINESS CHANGES**

J. HARRADINE & SONS, LTD., have bought the assets of Teasdale & Co., Ltd., Carlisle.

MAST LABORATORIES, LTD., 38 Queensland Street, Liverpool, 7, have been allocated a new telephone number: Royal 5397.

## **Appointments**

PHARMAX, LTD., Thames Road, Crayford, Dartford, Kent. have appointed the following medical representatives: Messrs. F. G. Bowles (Bedford area); A. McArthur (South Yorkshire); J. McNeil (North Glasgow); K. Pollitt (North Lancashire); A. Porter (Southwest Lancashire) and R. W. Stacey (Hampshire).

## **DEATHS**

BROMAGE. — On August 20, Mr. Edgar John Bromage, M.P.S., Stourton, Chapel Street, West Hagley, Worcs, and formerly of 25 Mill Street, Kidderminster. Mr. Bromage qualified in 1912.

CAMERON.—On August 22, Miss Margaret Ada Cameron, M.P.S., High Street, Gargrave, Skipton, Yorks. Miss Cameron qualified in 1930.

CURTIS.—On August 9, Mr. William Henry Curtis, M.P.S., 78 Claremont Road, London, N.6. Mr. Curtis qualified in 1915.

CUSSONS.—On September 6, Mr. Leslie Cussons, aged fifty-six, chairman of the Cussons group of companies. Mr. Cussons was a son of Mr. Alexander T. Cussons, who founded Cussons Sons & Co. in 1889. He entered the business as a young man, working in various departments before joining the board more than thirty years ago. He became chairman of the company in 1951 and held the appointment until April, when he became chairman of the newly-created Cussons Group, Ltd. That group includes P.C. Products (1001), Ltd., Swinton, Gerard Brothers, Nottingham, and Sinclair, Owen, Ltd., Manchester. Besides the business, his great interests in life were farming, tennis and the welfare of old people. He was ex-president of the Lancashire County Tennis Association.

HOLLAND. — On August 22, Mr. Kenneth Denton Holland, M.P.S., Flat 1, 5 Park Avenue, Kingston-upon-Hull, Yorks. Mr. Holland qualified in 1932.

JOLLY.—On August 25, Mr. Harry Jolly (sales representative for Johnsons of Hendon, Ltd., London, N.W.4, in the Midland area, 1925-55), aged seventy-five. Mr. Jolly had been with the company for forty-two years, during the last seven of which he worked at the Hendon Way offices. Two months ago he was forced by ill health to retire. He is survived by his widow and one son.

LEAK.—On August 28, Dr. Walter Norman Leak, Quarry Lane, Kelsall, Ches. Dr. Leak was a (medical) member of the Standing Pharmaceutical Advisory Committee and of the Joint Formulary Committee.

McBIRNEY.—On September 5, Mr. Robert McBirney, M.P.S.N.I., 149 Cregagh Road, Belfast. Mr. McBirney, as principal of the firm of Robert McBirney & Co., Ltd., had carried on business for almost forty years at 77 Cregagh Road, Belfast. A native of co. Monaghan, he was in practice in Kilkeel for many years before setting up in Belfast. He was a member of the Masonic and Orange Orders.

OSBORNE.—Recently, Mr. George Bailey Osborne, M.P.S., Moorlands, Oxford Road, Tilehurst, aged eighty. Mr. Osborne was an apprentice with Mr. B. Butler, Reading, and qualified in 1905. Later he commenced a business in Broad Street, Reading, where he remained one of the last individual traders until his retirement; he acquired the business of G. W. Harrison, Ltd., manufacturing chemists, in 1925. He was a keen motor-cyclist and also enjoyed sailing, being a member of the Hayling Island sailing club and having his own sailing craft. He leaves a son and two grandchildren.

PIMLOTT. — On August 18, Mr. Thomas Herbert Pimlott, M.P.S., Highfield, Caldy Road, West Kirby, Ches. Mr. Pimlott qualified in 1912.

## TRADE NOTES

Now Tax-free. — MERCK SHARP & DOHME, LTD., Hoddesdon, Herts, notify that Aldomet injection is now exempt from purchase tax.—Roche Products, LTD., 15 Manchester Square, London, W.1, state that Valium is now exempt from purchase tax.

Special Autumn Offer. - Nicholas Products, Ltd., Slough, Bucks, are offering buyers of their Lifeguard disinfectant twopence off the price of a large bottle. During the period of the offer stockists are able to buy on bonus terms. Heavy television advertising support is being given.

Prices Reduced. - Kimberly-Clark, Ltd., Larkfield, Maidstone, Kent, announce new reduced prices for Kleenex tissues. Profit margins and normal quantity discounts are maintained and, as part of a bonus-offer scheme, the makers guarantee full compensation against existing trade stocks bought at old prices.

Pack-size Change.—Imperial Chemical Industries, Ltd., Pharmaceuticals Division, Fulshaw Hall, Wilmslow, Ches, announce that Hibitane lozenges are now issued in tube of twenty instead of twelve. The lozenges may be obtained on bonus terms at present. (Particulars available from I.C.I. representatives.)

Drug Withdrawn, Specialities Continued. — Duncan, Flockhart & Co., Ltd., Edinburgh, have withdrawn lignocaine hydrochloride, B.P., from their range of products but they epmhasise that the full range of Duncaine brand preparations of lignocaine continues to be offered. Existing hospital contracts for the substance will be honoured but will not be renewable.

Time to Clear Stocks.—Smith, Kline and French Laboratories, Ltd., Welwyn Garden City, Herts, having reduced the price of all presentations of Furadantin by  $7\frac{1}{2}$  per cent., point out that the National Health Service pricing bureaux will continue to pay at the old prices until settlement of November prescriptions (October in Scotland), thus giving retail chemists time to clear stock purchased at the old prices.

For Farmers Only.—The new ratand-mice poison Rinoxin (see C. & D., August 31, p. 197) of Gerhardt-Penick, Ltd., Thornton Laboratories, Purley Way, Croydon, Surrey, with its content of sulphaquinoxaline anticoagulant, is at present subject to Schedule 4B of the Poisons Rules, though it is understood that representations have been made for its exclusion from poisons control. It should only be freely supplied to purchasers such as farmers authorised to obtain certain poisonous products under section 7 of the Poisons Rules for trade purposes only.

Exempted Tax.—ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2, announce that their specialities Atomol nasal spray and Hazol are now exempt from purchase tax:—PHARMAX, LTD., Western House, Gravel Hill, Bexley-heath, Kent, state that their preparation Sustax (sustained-action glyceryl trinitrate) for the treatment of angina pectoris has been ruled exempt from purchase tax.—West Pharmaceutical Co., Ltd., 9 Palmeira Mansions, Church Road, Hove, 3, Sussex, point out that their non-hormonal anti-rheumatic tablet Thylin is free of purchase tax.

Products for Christmas.—In addition to the Christmas goods illustrated in the special section on other pages, attention is drawn to the following goods offered by manufacturers: -ABIETSAN MANUFACTURING Co., LTD., Concordia Works, Carmichael Road, London, Works, specialise in hand-painted gifts S.E.25, of feather-crystal bath salts and plastic bottles of concentrated bubble bath.-DUNLOP RUBBER CO., LTD., P.O. Box 151, Cambridge Street, Manchester, 1, offer the "ultimate in hot-water bottle luxury" with their Cosimax and Deep Sleep hot-water bottles, the first covered in fawn, pastel blue and pastel pink, and the second in primrose and cherry red covers.—A presentation vase of Delafine bath crystals (a replica in polythene of a classical Grecian design) is offered by Delafine, Ltd., Unity House, Great West Road, Brentford, Middlesex. — FOSTER-MCCLELLAN PRO-DUCTS, LTD., Cornwall Road, Hatch End, Middlesex, are shortly introducing a special gift pack containing both Cutipen and Nutrinail. The gift box is finished in gold and white with the



legend "Beauty Care for the Nails." If desired the Cutipen and Nutrinail may be removed from the box and

sold separately. — KING DEVELOPMENT Co., LTD., Wheatash Road, Addlestone, Surrey, draw attention to their Spungee perfumed sponges in lavender, English rose, lily-of-the-valley, verbena, freesia and white violet perfumes.—Progress SHAVING BRUSH (VULFIX), LTD., 143
New Bond Street, London, W.1, suggest a pure bristle or pure badger Vulfix shaving brush as an ideal present for men, and chemists are invited to write for brochure and details of special parcels.

### **Bonus Offers**

CHESEBROUGH-PONDS, LTD., Victoria Road, London, N.W.10. Flawless medicated cream. Twelve invoiced as eleven. -Angel Face powder. Twelve invoiced as eleven. Until November 10.

MERRELL-NATIONAL (LABORATORIES), LTD., 20 Savile Row, London, W.1. Merocets lozenges. Eighteen invoiced as twelve. For limited period.

NICHOLAS PRODUCTS, LTD., Slough, Bucks. Lifeguard. Fourteen large size invoiced as twelve; fifteen small size invoiced as twelve.

TOBAL LABORATORIES, LTD., Queenborough, Kent. Antussin new products. Twelve invoiced as ten on order for special parcel containing 1 doz. new children's; 3 doz. small and 1 doz. large new adult's double-strength; and 2 doz. new Antussin chewable capsules. Twelve of any one product charged as eleven. Until October 31.

WALLIS LABORATORY, LTD., Holy-well Industrial Estate, Watford, Herts. Eso-tone vitamin tablets. Twelve invoiced as eleven.

## **Christmas Showrooms**

THE following have been notified:—
COTY (ENGLAND), LTD., Norfolk Hotel, BOURNE-MOUTH, September 23-27; Red Lion Hotel, TRURO, September 25-26.

Dubarry Perfumery Co., Ltd., Darlings Regent Hotel, EDINBURGH, September 23-27.

JACKEL & Co., LTD., Station Hotel, AYR, September 24-25.

## "IMAGE" OF AN INDEPENDENT CHEMIST

Quick response to offer

scheme.

promoters of the offer (see C. & D., August 31, p. 196) to make a study of one pharmacy and present a scheme for improving its "image" to customers, free of charge to the chemist concerned, have been agreeably surprised at the number of letters that have come in asking for further details. The names and addresses of inquirers have been forwarded to the organisa-tion concerned, which has undertaken to send an acknowledgment to each correspondent.

### Method of Selection

The difficulty of dealing fairly with them all, so that each has an equal chance of being selected as "guinea pig," will be recognised as considerable, and the method of arriving at the answer deserves to be explained. All names of inquirers received up to first post on September 21 are being mixed together and four drawn at random from among them. Those four will be visited by a director of the organisation and he will select the one likely to show the most worth-while results from any proposals put forward. His visit will involve no expense to the chemist concerned. The "free" offer, it should be repeated, applies to the services of the consultant. If the proposals put forward involve any expenditure on materials, and if the chemist accepts them, then the cost of the materials is borne by the chemist, though the consultant has promised, as already stated, that his schemes are "without extravagance," and related solely to the purpose of the exercise, namely to create a proper "image" for the business so that it achieves its full potential.

The formulation of a sound scheme needs thought, and that involves time, but it is expected that the announce-ment of the name of the successful applicant will be published within four to six weeks. Thereafter the story will be told in these columns at appropriate stages in the development of the agreed

## **NEW PRODUCTS AND PACKS**

Capsules, Too.—The Pharmaceuticals Division of Imperial Chemical Industries, Ltd., Fulshaw Hall, Wilmslow, Ches, announce the introduction, in addition to Atromid, of Atromid-S as a red capsule containing 250 mgm. of ethylchlorophenoxyisobutyrate. The packs are containers of fifty, 250 and 1,000.

A Tablet Variant.—Lederle Laboratories division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, are making available pink sugar-coated 150-mgm. tablets of Ledermycin demethylchlortetracycline in addition to the present two-toned capsules. The tablets are recommended as being specially suitable for patients who find tablets easier than capsules to swallow since they are appreciably smaller than other tetracycline or oxytetracycline tablets. Packs are containers of sixteen, 100, 500 and 1,000.

Antibronchial Speciality. — Camden Chemical Co., Ltd., 61 Gray's Inn Road, London, W.C.1, draw attention to a new speciality, Brontina (dibenzheptropine citrate) which they are distributing in the United Kingdom for the Brocades-Stheeman organisation, Amsterdam, Holland. The drug is a product of research in the Laboratories of Messrs. Brocade. It has bronchodilating, secretion-inhibiting and anti-allergic properties and is indicated in chronic bronchitis, bronchial asthma and mixed forms of them. Brontina is available in packs of 100 1-mgm. tablets and box of twelve 2-mil ampoules (1 mgm. per mil).

A Veterinary Corticosteroid.—Elanco Products, Ltd., The Broadway, Wimbledon, London, S.W.19, a company formed by Eli Lilly & Co., Ltd., to market and distribute veterinary and agricultural products in the United Kingdom, announce the introduction to the veterinary profession of a new speciality Drenison with neomycin. Drenison (flurandrenolone) is described

complicated by bacterial infections. The conditions include dermatitis, eczema, otitis externa, infected wounds, pyodermatitis and secondarily infected allergic manifestations. The packs are tubes of 5 and 15 gm.

Lozenges for Sore Throats.—Merrell-National (Laboratories), Ltd., 20 Savile Row, London, W.1, have introduced a new speciality Merocets for the treat-



ment of sore throats and minor mouth and throat infections. Merocets lozenges, the active ingredient of which is cetylpyridinium chloride, are available in carton of sixteen in outers of 1 doz.

New Products in Range. — Tobal Laboratories, Ltd., Queenborough, Kent, announce the issue of three new Antussin products supplementing Antussin cough treatment (containing dextromethorphan), which was introduced in 1958. The new products, which sell alongside the existing ones, are new children's Antussin (in one size only); new adult's double-strength Antussin (in containers of two sizes); and new chewable Antussin capsules, described as "an entirely new form of cough treatment containing the liquid Antussin." Made to be chewed so as to allow the soothing effect of Antussin to be exerted all down the throat, the capsules are available in a tin.

Skin Perfume.— Morny, Ltd., 201 Regent Street, London, W.1, have produced a largesize pack of their skin perfume. Its waisted glass bottle is packed in a tall



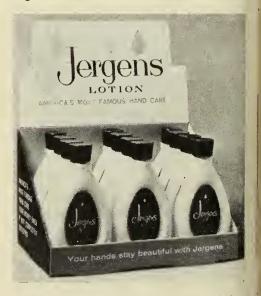
as a potent corticosteroid with a beneficial effect in the topical management of a variety of dermatological conditions that may be threatened or are trimmed acetate drum; the product is available in seven fragrances.



Cough Linctus. — John Wyeth and Brother, Ltd., Huntercombe Lane South, Taplow, Maidenhead, Berks, announce the introduction of a new cough linctus Davenol for the comprehensive relief of cough and congestion. Davenol is understood to combine the antihistamine carbinoxamine maleate with ephedrine and pholodine in a tangerine-flavoured base. Each 5 mils contains 2 mgm. of the maleate, 7 mgm. of ephedrine hydrochloride and 4 mgm. of pholodine. The containers are bottles of 4 and 40 fl. oz.

Repackaged. — Heath & Heather, Ltd., St. Albans, Herts, have changed the packaging of their product Melbrosia which is now strip-packed and issued in a new carton containing one four-week treatment. The product is described as "the natural rejuvenator with pollen and royal jelly." Messrs. Heath & Heather are also introducing a new multivitamin product Melbroton, described as "the new multivitamin tonic with concentrated vitamin C." Both products are made in Austria.

U.S. Hand Lotion for Britain.— Jergens hand lotion, described as "the largest selling product of its kind in the United States of America," is being launched nationally in Great Britain in October after a successful test marketing in the Southern television area. The



product is issued in a bottle containing 2.9 oz. and has an almond fragrance. It was formulated by the Andrew Jergens Co. to combat dryness of the skin and to protect the hands from weather exposure, etc. Sole distributors in Britain are Food Brokers, Ltd., Morden, Surrey.

Hair Set, Conditioned and "Highlighted."—Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, have launched a new hair speciality Coiffure Italienne, a hair-setting gel that is understood to set, style and "highlight" the hair. The product, "protein-enriched," is available in seven shades (Swedish and honey blondes, silver grey, brown, red, black and platinum) and is understood not to tint or dye but to "bring to life the actual colour—natural, tinted or bleached"—of the hair. In use, a "generous teaspoonful" is squeezed



into the palm of the hand and rubbed and combed through the hair while it is wet after a shampoo. The hair is then set with rollers and/or pins, and the hair is styled, conditioned and "highlighted" as it dries. Coiffure Italienne is claimed ideal for sets between shampoos, when a new or fresh style is required for a special occasion. The pack is a transparent plastic tube in a pale blue outer carton.

Sprays and Spray Mists.—Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, announce two new product series. New metered perfume sprays (in Flair or Bond Street) contain full-strength Yardley perfume and are small enough



to tuck easily into the handbag. Spraymist Colognes offered in new flasks include Flair, Bond Street, Freesia, April violets, Red Roses and lavender.

French Indelible Lipstick. — In partnership with the French manufacturers of the product, Warrick Brothers, Ltd., Warrex Laboratories, Tile Hill, Coventry, are undertaking the marketing of a lipstick, Le Rouge Baiser that is newly available in Britain. Described as "the original French indelible kiss-proof lipstick," the product was created in 1927 by the late Mons, Paul Baudecroux, an industrial chemist. The name Le Rouge Baiser is claimed to have become "familiar on the lips of almost every woman in France, Belgium, Germany, Spain and Switzerland" and to account, in France alone, for well over 50 per cent. of all lipstick sales, while the factory at Courbevoie, near Paris, at which it is manufactured, employs nearly 300 people. Since Mons. Bau-

decroux's death seven years ago, Mme. Baudecroux has increased the range of colours, and Le Rouge Baiser is now available in three finishes: Indelible, "brilliant" (moisturised) and pearlised. The manufacturers claim that, by careful formulation, they have produced in their three types of lipstick, varietics suited to every type of skin. The wide range (twenty-eight colours) means that there is an appropriate shade for every fashion trend. Le Rouge Baiser is already available through most pharmacies in the Northampton area where it has been test-marketed with, it is stated, outstanding success. It now goes on sale in the London television area and is also available from selected stores in the provinces.

Perfume Sachets. — The previous model of the Sweet Sue perfume sachet of which the distributors are Jackel &



Co., Ltd., Shuna Place, Maryhill, Glasgow, N.W., has been replaced by the sachet illustrated.

Medicated Skin Cream. — Chesebrough-Pond's, Ltd., Victoria Road, London, N.W.10, are launching during September a new medicated cream Flawless, designed to cover while healing. The product has been test-marketed and is now being backed by heavy advertising and display support. Flawless is a greaseless flesh tinted cream that is claimed to blend with the natural skin



colour under make-up. It comes in "sell-out" packs of 1 doz. tubes.

A Thermometer that Changes Colour. Described as the only thermometer that changes colour according to the temperature of the room, Smiths home thermometer shows blue when the room is too cool, black when fuel is being wasted and red for equable tem-

peratures. The thermometer covers the range 20° F. to 120° F. in three colour zones with the middle comfort zone magnified for quick and easy reading. The manufacturers are the clock and watch division of Smiths Motor Accessories, Ltd., Sectric House, London, N.W.2.

Luxury Toilet Paper.—The Antolia Co., Studio Six, 5 Kensington Church Street, London, W.8, are marketing a new product, Antolia leaves, described



as "a luxury toilet paper." Each box contains 120 leaves and each leaf consists of three sheets of pink toilet tissue faced on both sides with a high-quality white tissue. The lidded box is circular and made of acetate. The leaves are held in position by a pink nylon ribbon tied in a bow.



BATH CUBES IN BOX: Box of six doublesized bath cubes available in l'Aimant or assorted fragrances (l'Origan, Chypre, Emeraude, l'Aimant and Muguet des Bois) from Coly (England), Ltd., 3 Stratford Place, London, W.1.

An Advance in Feminine Towels. — Macdonald & Son, Ltd., Portland Mill, Ashton-under-Lyne, Lanes, are introducing Silcot hygienically deodorised feminine towels.

A New Unit for Pressurised Sprays.—Moore Medicinal Products, Ltd., Waverley House, Aberdeen, announce the issue of a new unit to supersede the present pressurised Brovon and pressurised Iso-Brovon sprays. The unit, which incorporates a visual check on contents, is designed to operate "in the natural upright position." It requires no assembly and delivers 350 metered doses. Complete and refill units are available for each spray.

A Silver Polish that Lasts.—A new silver polish, "Long Term," is being marketed by J. Goddard & Sons, Ltd., Leicester. The polish is described as forming an insoluble, invisible film of its own, impervious even to hot water.

## Centenary meeting of the British Pharmaceutical Conference, London

## **Conference Week Events**

## BANQUET

AT the Conference banquet on Wednesday evening, September 4, the guests represented, in the words of the president, a cross-section of society.

After the loyal toast, THE CHAIRMAN (Mr. H. G. Rolfe) proposed "The Lord Mayor and Corporation of London," ALDERMAN SIR NOEL BOWATER, responding. The Alderman spoke of his ignorance of pharmaceutical "science" or "industry," but said he came to learn

The toast "The British Pharmaceutical Conference," was proposed by Professor G. Valette (dean of the faculty of pharmacy, University of Paris). The Société de Pharmacie, he said, had been founded in 1803, about thirty-eight years before the Pharmaceutical Society of Great Britain, and its members had included famous chemists such as Vauquelin (discoverer of chromium), Pelletier and Caventou (who isolated quinine from cinchona bark), and, more recently, Moissant, Berthelot and Fourneau. The Society, now the Acadèmie de Pharmacie, represented teaching, research and the professional side of pharmacy, but it had a limited membership, as had the societies of other French towns. Many French pharmacists had not shared in the activities of such societies until the formation in 1949 of the Journées pharmaceutiques françaises, which provided opportunities to members of all branches of pharmacy of meeting their colleagues from other provinces, or other countries, and of bringing their knowledge of scientific and technical problems up to date. There was some criticism that the Journées were held in Paris, and it seemed desirable that in future they should be organised in turn in provincial cities, as with the British Pharmaceutical Conference.

Progress in the scientific field was increasing so much, Professor Valette continued, that it was necessary to arrange permanent training for the

members of professions. M. Louis Armand, a French economist, had said that one of the most important missions of the universities in future would be the organisation of "after-sales service."



Mr. C. W. Maplethorpe CONFERENCE PRESIDENT

The hope expressed by Professor Van Os of Groningen at the International Pharmaceutical Congress in 1949 that pharmacists would become advisers to physicians in the therapeutics field had not yet been fulfilled, but was in the interest of the physician, pharmacist and, above all, of the patient. The prodigious evolution of therapeutics often troubled the physician. It would be a matter for regret if the pharmacist were not able to help him when approached for assistance. That was why, in many French universities, the same faculty or school gave both medical and pharmaceutical teaching to students of medicine and pharmacy.

British and French pharmacists were faced with similar problems, and it was necessary that they should avail themselves of every opportunity to meet and to combine their efforts, so as to maintain the profession's standing and extend its fields of activity. First, however, the pharmaceutical profession of each country must seize every occasion to demonstrate its unity and efficiency.

to demonstrate its unity and efficiency. Replying to the toast, the Conference CHAIRMAN said that a centenary celebration by a voluntary organisation was a sure indication that it provided a valuable service to its members. Those present had no doubts about the success of the Conference because their basic interest, and indeed, prime purpose, was pharmaceutical research, which was an interest common to all pharmacists.

an interest common to all pharmacists. Scrutiny of the subjects discussed at the Conferences showed that, whereas chemistry had been the major interest of pharmacists 100 years ago, today the field covered nearly the whole spectrum of scientific disciplines. A major advance in any scientific subject would eventually have its impact on pharmacy. Major breakthroughs in knowledge were rare, advances being made step by step. Despite all progress, dismally little was still known about a great deal. The continued existence of the Conference as a forum for discussion of scientific papers depended upon research workers' wishing to present their papers at its meetings.

Proposing "Our Guests," THE PRESI-DENT of the Conference (Mr. C. W. Maplethorpe) said that pharmacy was essentially a "service to humanity." It was therefore fitting that pharmacists should be joined that evening by men and women who had served humanity in other fields. In the list of guests he saw a cross-section of society.

That the Conference was an international assembly was a great tribute to the pharmaceutical profession of the United Kingdom and the Republic of Ireland. He was glad to have the opportunity, as president of the Pharma-



CALEDONIANS: A Scottish group at the Grosvenor House ball on Friday evening.



ROM NORTHERN IRELAND: Northern Ireland's contingent over for the Conference, which included the president (Mr. D. Moore) of the Pharmacutical Society of Northern Ireland, was swelled by "exiles" resident in Britain.

eutical Society and of the Conference, o thank the Lord Mayor and the Aldermen of the City of London for eceiving pharmacy back within their istoric walls.

SIR GEORGE PICKERING (president of he British Medical Association), who esponded for the guests, said that his rade union had given a great deal of hought to the host-guest relationship, and categorised it into three sections: hat of the parasite in which the guest lerived everything from the host and ost nothing; that of the comensal— where they feed at the same table like the little worm that lived in the nome of the crab); and a third group nown as symbiotic, in which the two partners lived together (like lichens and certain fungi and algæ). He thought hat his profession and pharmacy fell nto that delightful category of host-guest relationship— "They can't live that."

**Closing Session** 

THE closing session of the Conference vas held in the Connaught Rooms on Friday afternoon, September 6, when t was formally agreed to hold the 964 Conference in Edinburgh during he week beginning September 14. The avitation to meet in Edinburgh was given by Mr. Eric Knott, and its aceptance was moved by Mr. J. G. Coletan, Dublin. The Executive's annual eport for 1963 included a reminder hat the revised Conference rules (see 2. & D., August 18, p. 161) came into orce at the conclusion of the meeting. The Conference approved the appointment of Dr. W. Mitchell as Conference hairman for 1964.

### ports

THE sun chose to shine on those who eft the metropolis on Thursday afterloon to participate in the sporting acivities arranged at Enfield, Middlesex. To judge by the enthusiasm of the comletitors the break from "working" essions proved most welcome. The lowledge competition, held at the Great lorthern Athletic Association's sports fround, was won by a team comprising lessrs. R. B. Birrell, Giffnock; J. G. Coleman, Dublin: S. C. Higgs, Lonlon, and J. H. Wood, London. In the lennis, played at Myddleton House, the ir Harry and Lady Jephcott trophies lere won by Miss M. J. Bell, Welwyn Farden City, and Mr. A. Pirnie, Col-

chester, with Mrs. M. Peel and Mr. R. Dickinson runners-up. Winner of the Edmund White golf trophy, played over eighteen holes at Crews Hill golf course, was Mr. E. V. Thomas, Dagenham, with a net score of 70. Runner-up was Dr. C. G. Butler, 71. Other golf results were:

Scratch prize, H. N. Espley, 82. Ladies' prize, Mrs. Laura P. Williams. Stableford prize, W. J. Dalton. Best score on first nine holes (Stableford), C. S. Cullen. Best score on second nine holes, D. Jack.

## A Tale of Two Badges

THE Southampton Branch chairman's badge, together with personal jewellery belonging to the chairman's wife, was stolen from a hotel safe during the night of September 3, though the badge of the chairman of the North Staffordshire branch, also in the safe, was untouched. The Southampton badge was of gilt and enamel and bears the Arms of the Pharmaceutical Society. The names of ten past-chairmen were carried on the ribbon. The jewellery stolen was of considerable sentimental value.

## " Aladdin's Cave "

AN unusual, but interesting, kind of Conference ladies' excursion was to the London silver vaults, housed in a part of the world-famous Chancery Lane Safe Deposit and comprising displays of silver for sale in more than thirty underground air-conditioned vaults, run by individual traders. From the storage of a few pieces of silver in pre-war days, the vaults have grown—with the rebuilding and redesign of the building, following complete destruction by bombing in the war—to a "street" of underground shops with complete security, and modern amenities, occupied by merchants vieing with each other to offer the most comprehensive display of all forms of silverware. Following the tour of the vaults a visit was made to Lincoln's Inn Fields, where the chapel and hall were viewed with interest.

## A Broadcast to the West Indies

DR. T. D. WHITTET (chief pharmacist, University College Hospital) and one of his post-graduate students, Mr. Lester L. Woolery, B.Pharm., of Jamaica, were invited by the B.B.C. to broadcast in the Caribbean service on September 6. They were asked to discuss their impressions of the Conference and of the contribution it and British pharmacy could make to the development of pharmacy in the Commonwealth and especially in the West Indies.



FROM THE REPUBLIC OF IRELAND: The president of the Pharmaceutical Society of Ireland (Mr. D. Kennelly) with Mrs, Kennelly led a distinguished delegation from the Republic that included two ex-presidents (Messrs, Frank Loughman and M. Costello), two members of Council (Messrs, G. O'Neitl and M. F. Walshe), two members of executive of the Irish Drug Association—Messrs, W. D'Alton, Banager, with Mrs. D'Alton, and H. W. Ferguson (Vice-President), Limerick, with Mrs. Ferguson—the dean of the Society's College (Dr. Timoney) with Mrs, Timoney, and others. Also in the group will be noted some "interlopers" who assumed Irish kinshlp for the occasion.

## Centenary meeting of the British Pharmaceutical Conference, London

## A Century of Drug Treatment

## EXHIBITION AND LECTURE AT ROYAL SOCIETY OF HEALTH

ABOUT 100 Conference visitors were present at an informal reception given by the pharmaceutical group of the Royal Society of Health on Tuesday evening. They were received by the group's chairman (Mr. D. J. Gibson) and Dr. H. C. Maurice Williams, O.B.E. (an executive vice-president, Royal Society of Health

ciety of Health.

With the help of something like fourteen pharmaceutical companies, the group had arranged a special exhibition illustrating "100 Years of Progress in the Drug Treatment of Disease." Among a wealth of fascinating exhibits were a prescription book from the old Plough Court pharmacy of Allen & Hanburys, Ltd., dated 1862-63, a photocopy of Gerhard Domagk's original notes on his tests of the hostsrights of the his tests of the bacteriostatic effects of sulphonamides, and a series of panels from the Wellcome Historical Medical Library providing a panorama of "Scientific Pharmacy, 1863-1963," and illustrating the principal contributors and contributions of the century.

### First Synthesis of Sulphapyridine

From May & Baker, Ltd., there were photographs of the test-book entries recording the initial synthesis of sulphapyridine (M&B 693) on November 2, 1937, while Astra-Hewlett, Ltd., loaned two large, and probably unique, scrap-book volumes containing an enormous variety of labels from pharmaceutical products in use during the first half of the nineteenth century. From Hoechst Pharmaceuticals, Ltd., came a photograph of Paul Ehrlich in his laboratory



THE ADDRESS: Professor Keele ontlining a century of drug development.

surrounded by assistants, and a copy of the report by Stoltz and Flächer (dated November 16, 1906) describing the synthesis of adrenaline.

## Advances in Treatment and Prophylaxis

To complement the exhibition an address was given by Professor Cyril Keele (professor of pharmacology, Mid-dlesex Hospital Medical School), who said that the past century had seen outstanding advances in both medicinal therapy and immunological prophylaxis. Chemotherapy had provided the most dramatic illustrations of progress in the treatment of disease. The development of the dyestuffs industry in Germany, coupled with the rapid growth of bacteriology, had given Ehrlich the opportunity to establish chemotherapy as a practical proposition, particularly by his discovery in 1910 of the organic arsenical dye Salvarsan for the treatment of syphilis.

Twenty-five years later a red dye called Protosil rubrum had been shown by Domagk to be effective against certain bacterial infections. The scope of bacterial chemotherapy had widened by the discovery of sulphonamide derivatives such as sulphapyridine, sulphathiazole, sulphadiazine and sul-phadimidine. Penicillin, the first of many antibiotics, was discovered by Fleming in 1928, before the sulphonamides, but not until 1940-41 did Florey, Chain and their colleagues in Oxford prepare the substance in stable form and reveal its remarkable effectiveness against experimental and clinical infections. It was, perhaps, just as well, said Professor Keele, that the high toxicity of penicillin to guinea pigs had not been revealed before the drug had been

given to patients.

In 1944 Waksman introduced streptomycin for tuberculosis and in 1947 and 1948 came chloramphenicol and aureomycin respectively. Since then newer antibiotics had come thick and

Immunological preparations had been discovered for the control of many infections. Antitoxic sera for diphtheria and tetanus were introduced by von Behring and Kitasato in 1891. Later, toxoids were developed to create active immunity against those diseases, and dead or attenuated cultures of pathogenic microorganisms had helped to prevent typhoid fever, tuberculosis, whooping cough and poliomyelitis.

Deficiency diseases required substi-tution therapy. In 1891 Murray had first treated the thyroid deficiency dis-ease, myxedema, with thyroid extraction in 1921 Banting and Best had discovered insulin for the treatment of diabetes mellitus, and in 1949 cortisone had been isolated from the adrenal cortex. Dietary deficiencies of vitamins had to be made good in the treatment or prevention of deficiency diseases such as beri-beri, pellagra, scurvy and

pernicious anæmia.

## Palliative Therapy

Palliative therapy, whilst not radical was nevertheless helpful. Examples were the use of digitalis (introduced in 1775) and diuretic drugs for the treatment of heart failure, the drug treatment of hypertension, and the use of antipyretics. Symptomatic therapy was only of temporary value, but one had only of temporary value, but one had only to consider the relief of pain by analgesics to realise that such treatmen was well worth while. Morphine has been isolated by Serturner in 1806 and today there were synthetic drugs such as pethidine (1938) and methadone (1944) that could be used in its stead

Some drugs (anæsthetics were examples) were used as "adjuvants" to treatment. They enabled surgeons to perform operations under favourable conditions. Chloroform, ether and nitrous oxide were established in the



of Sandoz Products, Ltd., at Royal Society of Health's exhibition, "100 Years of Progress in the

Drug Treatment of Disease," on view at the Society's London headquarters on September 3. The display dealt with migraine, which causes much distress to those who suffer from it. First drug to offer any real relief in the condition was ergotamine, and the exhibit recorded the isolation of the alkaloid by Professor Arthur Stoll in the company's Laboratories in 1918, the elucidation of its structure in 1951, and its total synthesis in 1961. 1840's, but cyclopropane (1934), intravenous thiopentone (1935) and halothane (1956) were introduced relatively recently. Though cocaine had been isolated in 1860, it was not used as a local anæsthetic till 1884. The first synthetic drug of this group was procaine, discovered in 1905, since when many others had been made available.

Finally, drugs might be used for diagnostic purposes, as when radiopaque substances, such as barium sulphate and organic iodine—containing compounds were given to reveal the con-

tours of hollow viscera.

Professor Keele concluded "There have of course been adverse developments and even tragedies, but I hope that the natural and correct desire to make drugs safe will not lead to such restrictions as to cripple pharmaceutical research in the future. The first trial of any new drug in man carries an element of risk, and everything should be done to minimise that risk, but the history of the past shows that there is not only the risk of failure and disaster



AT THE EXHIBITION: Dr. H. C. Maurice Williams, O.B.E., Professor Keele, Mrs. Gibson, Mr. and Mrs. A. O. Ransome-Kuti, and Mr. Douglas J. Gibson (chairman of the pharmaceutical group) look at the molecular structure of methicillin.

but the risk of success as well. vote of thanks to Pi MR. A. G. M. MADGE proposed a his "masterly survey.

vote of thanks to Professor Keele for his "masterly survey."

## Centenary meeting of the British Pharmaceutical Conference, London

## **Science Sessions**

(Continued from The Chemist and Druggist, September 7, p. 244)

AFTER congratulating Professor Shotton and his colleagues on the previous paper, Mr. Rolfe called upon Dr. S. B. Challen at section A of the Monday afternoon science session to present the next paper, which was entitled:

## **Evaluation of Canada Balsam**

STEPHEN B. CHALLEN

DURING 1961, defective samples of the oleoresin Canada balsam were imported from Canada to Great Britain. The resins prepared from them were soft and sticky, and either opaque or dark reddish brown in colour. Visual examination gave little indication that they were defective, though some samples were thinner than usual. All were investigated on the assumption that variation in properties was due to the presence of another foreign natural product. Fresh oleoresin collected from trees was compared with commercial samples. A screening test described in the paper detects samples adulterated with mineral oils, and shows up Oregon balsam derived from Pseudotsuga taxifolia, which gives a soft resin when dried. Tests carried out with mixtures of liquid paraffin and oleoresin show that adulteration with 5 per cent. mineral oil, but not 1 per cent. may be detected. A sample adulterated with a vegetable oil also gives a soft product after drying, but the residue is never opaque. A high saponification value would corroborate the presence of glycerides. The opacity of residues from samples heavily adulterated with mineral oil is explained by the insolubility of the "resene" in mineral oils, that constituent being deposited when the volatile oil is removed. The "resene" is soluble in vegetable oils, giving a clear residue. The occurrence of commercial oleopesin having an acid commercial oleoresin having an acid value as low as 54 is new, previous adulteration having been associated

with acid values higher than 110, due to substitution either with Oregon balsam or crude turpentine. Solvent extraction of one sample showed that it had been adulterated, probably with a commercial petroleum oil. From the amount present, accidental contamination seems unlikely. Visits to Quebec province showed that accidental contamination of Canada balsam can easily occur. Oleoresins stored for several years in a tightly closed container are shown not to differ from those of recent origin. It was found that the refractive index of a sample gave no indication of its value.

A table indicates a wide range of

acid values for the fresh oleoresin, and variations in the colour from pale yellow to reddish brown. The acid value also varies with changes in amount of volatile oil (lower in samples from dead trees). Loss of volatile oil through defective storage causes an apparent increase in acid value, suggesting that an acid value calculated on the basis of the resin content is a more reliable criterion of purity than one calculated in terms of the oleoresin. There would also be less likelihood of adulteration if Canada balsam were exported and sold in the form of

the resin. That would also reduce transportation costs.

(From the College of Pharmacy, University of Saskatchewan, Saskatoon, Canada)

Dr. Challen showed a number of coloured slides and produced samples of bark and a collecting can as used commercially. He also exhibited a sample of true oleo resin. Mr. S. G. E. STEVENS, Welwyn Garden City, asked about the effect of adding a drying oil as an adulterant. Dr. CHALLEN said that it would probably yield a semi-solid.

MR. G. H. WRIGHT, Leeds, referred to the increased availability of lenses

produced in Japan, and asked if Canada balsam was exported to that country from the Quebec Province. DR. CHALLEN believed that in the Far East other samples of oleo resins were used.

The first paper at session B on Monday afternoon, presented by Dr. Cow-LEY, Dr. D. C. Garratt in the chair, was:

## Chemical Studies of Digitalis Leaves and Inflorescences

P. S. COWLEY and J. M. ROWSON AFTER the discovery of floral organs in commercial samples of digitalis leaves, the total glycoside content of the inflorescences of Digitalis purpurea, D. lanata, D. lutea, D. thapsi and D. ambigua has been investigated and compared with that of corresponding leaves. A similarity in the chemical composition of the leaves and inflorescences of each species has been demonstrated. The authors comment that the yield of glycosides from D. purpurea and from D. thapsi would be increased by harvesting the entire aerial parts of the second year plants.

(From the School of Pharmacy, Brighton College of Technology, and the Department of Pharmacy, Bradford Institute of Advanced Technology)

stitute of Advanced Technology)

In the discussion Professor J. W. Fairbairn said that the results in the paper seemed to be based on one sample only. He asked whether the author had any more quantitative information. Dr. Cowley explained that "the mean of seven determinations" (as stated in the paper) meant seven different samples. Asked to define the expression "morphological member," he said it meant "the calyx, etc." Professor J. W. Fairbairn further asked whether the authors had assumed, because a spot had been obtained on chromatograph paper, that it represented a new glycoside. Dr. Cowley's reply was that the authors had

used a large number of reference substances, and felt that such an assumption was reasonable when a spot of the same colour was obtained in a similar position.

DR. W. MITCHELL, London, did not think that second-year cultivation would prove a commercial proposition: there would be disadvantages in practice.

would be disadvantages in practice.
PROFESSOR S. E. WRIGHT, Sydney,
Australia, asked whether the authors
had considered using thin-film chromatography. The answer was "No," but
the co-author (DR. J. M. ROWSON) later
said that that technique was now being
employed at Bradford, "and we like
it." It was intended to use the technique.

The next paper was:

## Orthogonal Functions in Two-Component Spectrophotometric Analysis

A. L. GLENN

GENERAL procedures are outlined for the use of orthogonal functions to correct for irrelevant absorption in twocomponent spectrophotometric analysis. A traditional method is modified at the final stage of calculation, when it is necessary to substitute suitable analogues for the entities, "extinction" and "wavelength." Extinction is replaced by "coefficient of an orthogonal function" and wave-length by "orthogonal function over a specified range (or set) of wavelengths." Once those substitutions have been made, orthogonal functions are readily incorporated into the usual methods and equations spectrophotometric analysis. though the procedures are specified in terms of Legendre polynomials they are equally applicable to the use of trigo-nometric functions. The general procedures are illustrated by the analysis of a mixture of adrenaline and phenol. (From the Department of Pharmaccutical Chemistry, School of Pharmacy, University of London)

In opening the discussion THE CHAIR-MAN expressed the view that, as in previous methods of coping with irrelevant absorption, it was still necessary to know what the irrelevant absorption was before making the correction. DR. GLENN admitted that there was some truth in that view but suggested that the elimination of constant and linear contributions to the total absorption would usually go a long way toward correcting for irrelevant absorption. The Morton and Stubbs method was able to achieve that objective in single-component analysis, but the use of orthogonal functions gave greater flexibility to the correction process.

PROFESSOR SAUNDERS, London, asked why Legendre polynomials had been employed. Would it not have been better to have decomposed the curve on a basis of trigonometric functions? DR. GLENN said that his early theoretical explorations had in fact been carried out in terms of trigonometric functions. It became evident at that stage, however, that Ashton and Tootill's method for griseofulvin involved the same basic mathematical principles, and that their use of Legendre polynomials offered a more convenient means of analysing a set of single-point measure-

ments than did trigonometric functions. Further development of the method might suggest that trigonometric functions would prove superior to the Legendre polynomials.

The next paper was:

## Charge Delocalisation and Neuro-Muscular Blocking Activity

B. COLLIER and K. A. EXLEY

THE curariform activity of certain quaternary compounds has been related to charge delocalisation in the molecule, to an amount dependent on the electronegativity of the alkyl groups linked to the central nitrogen atom. It was postulated that, if the density of charge on the central atom fell below a critical level, the compound would be pharmacologically inactive at the neuromuscular junction. The evidence was based on dissociation constants of aliphatic amines and carboxylic acids. Ionisation constants of bases are known to be dependent both on the inductive effect and on the steric effects of those substituents. The dissociation constants of carboxylic acids would seem to reflect most closely the inductive effects of alkyl substituents. Earlier work was limited by lack of reliable values for the dissociation constants required and by scant pharmacological data. Further work was needed, and the authors con-tribute to it. Their work uses cats, and the method they suggest, depending as it does on the depth rather than the rate of onset of paralysis, would seem more reliable in relation to that theory. An attempt has been made to determine the relationship, if any, between the charge delocalisation and pharmacological activity at the neuromuscular junction, for a series of six simple quaternary ammonium compounds. After intra-arterial injection of doses up to 12 mgm., all except tetraethyl-ammonium iodide (TEA) interfered with neuromuscular transmission in the cat; TEA was inactive in those doses. Results from four experiments clearly show the order of potency to be tetramethylam-monium iodide (TMA), tetra-n-propylammonium bromide (TPA), tetra-n-butylammonium iodide (TBA), tetra-n-amyl-ammonium bromide (TAA), tetra-nhexylammonium bromide (THA), tetraethylammonium iodide (TEA).

(From the Department of Pharmaco-

logy, University of Leeds)

MR. J. J. LEWIS, Glasgow, asked what current intensity had been used for stimulation, and where the electrodes were located, whether allowance had been made for "equilibrium effects" in the use of the preparations, and whether other isomers had been tested. Did the speaker believe that TEA acted pre-synaptically. Mr. Collier replied that the current had supra-maximal, but he was unable to give a precise figure. The electrodes had been placed on the cleared sciatic nerve. He was convinced that the preparations were stable when the results were taken. No isomers other than those mentioned had been available. There was a considerable amount of indirect evidence that TEA acted pre-synaptically. Direct evidence had been forthcoming recently that the amount of acetylcholine released was greater with TEA.

Dr. A. H. BECKETT was "not com-

pletely happy" about predicting the effects of alkyl substituents in quaternary ammonium compounds by reference to the dissociation constants of straight-chain carboxylic acids. He suggested that a-branched chain acids might serve as better guides.

might serve as better guides.

DR. E. R. CLARK, Leeds, agreed that the criticism was valid. The assessment of electron distribution in quaternary ammonium salts was, however, difficult, and the use of straight-chain acids, though neglecting static effects, was considered justifiable for an initial

approximation.

The next communication was presented by Dr. G. C. Wood, who was addressing the Conference for the first time. Its subject was:

## Reaction of Semicarbazide with Collagen

G. C. WOOD

WHEN experimental lathyrism [poisoning by leguminous seeds] is induced in by administering certain aminonitriles or hydrazine derivatives two major effects observed are increased fragility and increased extractability of collagen in skin and other connective tissues. It has been suggested that lathyritic agents act by altering the aggregation stage of collagen fibrogenesis. The paper reports preliminary observations on the effect of treating collagen in vitro with one lathyritic agent, semicarbazide. Its effect on fibril-forming properties and subunit composition has been measured. The results show that direct action of semicarbazide on neutral-salt-soluble collagen in vitro resulted in changes in the collagen somewhat similar to those observed in lathyrism. In lathyrism the collagen synthesised is not as highly cross-linked as in normal animals. The present data suggest that the cross-linking, which seems to occur during "ageing," does not proceed as readily in semicarbazide-treated collagen as in untreated collagen.

(From the School of Pharmacy, Royal College of Science and Technology, Glasgow)

MR. J. J. LEWIS, Glasgow, inquired about the present status of the controversy surrounding the cause of lathyrism in man. Was it a vitamin deficiency or caused by a toxin? Further, had the author attempted to reverse the effects by the use of cross-linking agents? The answer to the second question was "Not as yet," though workers at Oxford had shown that aldehydes had such an effect *in vitro*. Dr. Wood had no knowledge of the genesis of lathyrism in man. Work with rats, however, suggested that the action was direct.

DR. G. E. FOSTER, Dartford, said that some years ago he had investigated fibril formation in insulin solutions by the use of double refraction observed between Polaroid screens. He wondered whether the author might find that technique useful. He also asked if the author had thought of investigating a series of substituted carbazides. The effect of structure on the phenomenon might be interesting. Replying, DR. Wood said an Oxford worker (Levene) had carried out an extended series of *in vivo* studies using chick embryos.



## 'TYROZETS'

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## A Happy Celebration

VIEWED from almost any angle the centenary meeting of the British Pharmaceutical Conference, held in London last week was a successful operation. Both the Conference Executive and the hardworking London Committee and their colleagues are to be warmly congratulated on the result of their work.

Attendances at the Science sessions were unusually high, and were well maintained even at the last session on Friday afternoon. Comment on the papers presented was, as might be expected from the range of the subject matter, somewhat uneven, but that is a fact of life that has to be accepted. Everything goes to show that, however valid the criticism that the papers become every year more abstruse, with the effect that they are therefore less readily appreciated by Conference members in general, the science sessions are as vital a part of the Conference as ever. They must continue to provide research workers with the opportunity to present their papers and receive both formal and informal criticisms of their work. The subject of a Conference science paper must always be studied as if it were to become the basis of amendments in the next published Pharmacopæia.

That is also true of the symposium session, and especially applicable to this year's theme: "Fine Particles in Pharmaceutical Practice." Both opening speakers demonstrated well the practical application of their work.

In the professional session Professor Rodman showed with equal clarity how pharmaceutical colleagues in the United States have, through their professional work, sought to influence public opinion. "Their efforts to prevent poison accidents occurring have won wide public recognition and have added to the prestige of the profession." The prevention of accidental poisoning is indeed a sphere of activity in which each individual pharmacist can accomplish a great deal, and in which the whole profession in Britain, led by the Pharmaceutical Society itself, could well become more active. Increased public awareness of the need to handle medicines with discrimination would not only reduce accidental poisonings, but would in doing so serve to enhance public appreciation of the pharmacist.

The final professional session of the 1963 meeting, at which pharmaceutical education was discussed, yielded a number of ideas, each capable of provoking prolonged discussions. The slides showing dispensaries in use at Sunderland and Bristol schools of pharmacy

were a special challenge confronting the general practitioners of pharmacy in their everyday work.

## U.S. Opinion on Labelling Medicines

THE pros and cons of labelling prescription drugs with their names were aired in the July 27 issue of the Journal of the American Medical Association. In its leader, the Journal favoured such labelling as "one more step toward bringing about better understanding between patient and physician and improving relationships between the pharmacists and the physician." Objections that such labelling would encourage the patient to decide for himself when to start and stop the drug, or to "doctor" his friends, would be answered by the physician's explanation regarding its purpose and the public's growing awareness of the powerful effects of drugs, both of which, says the editorial, should help to discourage such practices. The A.M.A's Council on Drugs is reported to have passed a resolution recently recommending that prescription pads should contain boxes for "yes" or "no" on whether to label; if not filled in, labelling would automatically be carried out. The contrary view is put in the same issue by the executive director of the American Pharmaceutical Association and the executive secretary of the American College of Apothecaries. In an article on "Problems in Prescription Order Communications" they state that disclosure must be evaluated in relation to circumstances and the persons involved: the determining factor should be necessity rather than the convenience of the prescriber, patient or pharmacist. The physician frequently indicates directions for use and cautionary statements he wants written on the label, but the authors consider that, in the absence of a specific request from the prescriber, the pharmacist should not by himself ordinarily disclose the ingredients of the medication by labelling.

## MEDICAL ABSTRACTS

## TRIAL OF A SMOKING DETERRENT

RESULTS of a trial to assess the value of lobeline sulphate as a smoking deterrent are given in a report from the research committee of the British Tuberculosis Association (Brit. med. J., 1963. II. 486). The subjects chosen regularly smoked twenty or more branded cigarettes a day and all desired to give up smoking. They were randomly allocated to tablets containing 2 mgm. of lobeline sulphate, 125 mgm. of magnesium carbonate, and 180 mgm. of tribasic calcium phosphate (Lobidan) or to inert tablets of similar make-up and taste containing 15 mgm. of quinine sulphate, the dose of each being one tablet four times daily for six weeks. Results were assessed at the end of two weeks, six weeks and, for "successful" participants, at twelve weeks (i.e., six weeks after stopping the tablets). No significant difference was found between the two groups, five of the forty-three subjects in the Lobidan series and four of the thirty-eight taking inert tablets smoking no cigarettes in the sixth week and 46 per cent. and 42 per cent. respectively smoking 50 per cent. or less than the number smoked prior to the trial. It is concluded that Lobidan was no more effective as a smoking deterrent than the inert tablet. A return to former smoking habits after Lobidan was found just as likely as after the inert tablet.

## PROPHYLACTIC TREATMENT OF SMALLPOX

An investigation of the effect of N-methylisatin  $\beta$ -thiosemicarbazone\* in the prophylaxis of smallpox has been carried out in Madras, India (Lancet, 1963. II. 494). The subjects were contacts of smallpox patients, those who had previously suffered from the disease or seemed to be developing it, being excluded. 1,101 persons received the trial drug in the form of a 10 per cent. or 20 per cent. suspension in syrup, using the following oral dosage schedules: (1) 1.5

gm. twice daily for four days; (2) 3 gm. twice daily for four days; (3) two doses of 3 gm. within a period of twelve hours. 1,126 persons served as controls, receiving no treatment except that those living in close proximity to treated groups received a placebo preparation (most cases in both groups had already been re-vaccinated after admission of the index case to hospital). In the treated group there were only three cases of smallpox, all mild and on schedule (1). In the control group there were seventy-eight cases with twelve deaths. From data on schedule (3), the authors are able to state that the drug exerts a prophylactic action even when given during the incubation period of the disease. They found that it was effective regardless of the vaccination status of the contact and was much more effective than vaccination or re-vaccination in protecting a contact. The only side effect, nausea and vomiting on the higher dosc level, could usually be controlled with cyclizine. \* Compound 33T57; Marboran.

### PROMAZINE IN LABOUR

THREE trials of promazine (Sparine) used as a tranquilliser during labour are reported by Dr. A. E. B. Matthews, consultant obstetrician and gynæcologist, West Middlesex hospital, Isleworth (*Brit. med. J.*, 1963. II. 423). In the first, a retrospective study of toxicity in 993 patients (from 500 consecutive cases before the use of promazine in the unit, and 500 cases given promazine to allay fear and anxiety), the safety of the drug suggested by the literature was confirmed, despite a tendency towards maternal tachycardia. There was a reduction in repeated vomiting from 5 per cent. to 1 per cent. Two double-blind trials were then carried out in which pethidine was given for the relief of pain, and promazine as transquilliser. Subjective relief in the first trial (280 patients) was assessed by the average condition of the patient at various stages of labour: the trial failed to demonstrate any significant difference between placebo (lactose tablets or saline injections) and promazine groups. The author suggests that the drug effect could have been diluted by the untreated hours of labour and observers could have changed. In the second trial (292 patients), subjective relief was assessed by a single observer at a fixed time after each drug administration. 58.5 per cent. of promazine cases and 36.1 per cent. of placebo cases now showed marked improvement in pain; results for improvement in "mental state" were 63.2 per cent. and 36.2 per cent. respectively. Dr. Matthews points out that pethidine has been used for many years for pain relief, and to some extent for the relief of anxiety, so that improvement in both was to be expected in the control group. Comparison of analgesic requirement in the two groups tended to confirm the analgesic potentiating effect of promazine. It is suggested that promazine, with its tranquillising, analgesicpotentiating and anti-emetic properties is a useful adjunct to therapy in labour.

## ECHOES OF THE PAST

## A METHOD OF RECOVERING THE DROWNED

From "The London Chronicle or Universal Evening Post," March 3, to March 6, 1759.

(Communicated to the author of a periodical journal printed in Holland by Dr. Du Moulin, an eminent Physician.)

A SERVANT maid, of about eighteen years of age, had fallen into a river, and was carried by the stream upwards of 150 paces. But her cloaths catching hold of some piles, driven down for the use of a Tanner, she there stopt; and, some hours after, she was taken up. She was exposed some time before her friends heard of the disaster. At length she was carried to the house of her Mistress: where she was stript and laid down before the fire. In this situation Dr. Du Moulin found her, without motion, stiff and cold, her eyes shut, her mouth open, her countenance pale and hollow, and her whole body much swelled and full of water. She had no pulse. The case being looked upon as desperate, the Doctor resolved to try an experiment, suggested to him by what he had observed of flies and other insects, that being drowned and apparently dead, will yet recover by half burying them in ashes and salt. He ordered a sufficient quantity of dry pot-ashes to be strewed upon a bed to about three inches deep: Upon this layer of ashes the girl was placed, and another layer of ashes of about two inches deep, was sprinkled over her. On her head was put a cap, contain-

ing a good quantity of ashes also; and round her throat a stocking filled with the same. The blankets were now laid on the bed, and thus the patient lay about half an hour; when her pulse began to beat; by degrees she recovered her voice, and soon cried out articulately "O I am frozen—I am frozen." A cordial was administered, and she continued to lie eight hours in the ashes; during which time the water came away by the urinary passages, to an amazing quantity: After which she found herself greatly relieved; and though for the three following days she was still a little indisposed, the indisposition was slight, and went soon off.

the indisposition was slight, and went soon off.

In want of a sufficient quantity of dry pot-ashes, dry salt may be used, and, according to the Doctor, with the same

success.

## Any Business Questions?

Previously I received a deduction for the net annual value of my business premises when calculating my business profit. I paid Schedule A tax last January, but the Inspector of Taxes tells me that I cannot now have a deduction for 1963/64 based on my profit for the year ended March 31.

SECTION 29 of the Finance Act 1963 repealed the section of the Income Tax Act 1952 under which Schedule A allowance was granted, with effect from 1963/64. You will, however, receive an allowance when you cease to use the premises for business purposes, provided you continue to carry on your business elsewhere.

If I form my business into a partnership with my wife, will it be advantageous for tax purposes?

GENERALLY speaking the answer is yes! If you do that, however, it is essential that the partnership should be a real one, and not just a partnership on paper. It will be necessary for you to be able to show that there is a partnership in fact. For that purpose your wife should play an active part in the business, however small. You must register a partnership business name, unless you trade under your own names. In addition there should be a business bank account on which both partners can draw cheques, and the business letterhead should show both partners names.

I have only been in business in my own pharmacy for approximately a year. Last November I received a form from the income tax authorities demanding a payment of tax. I paid it though it seemed a lot. Now I have received another demand for a similar sum and I am informed that the original demand was "merely an estimate," but that it has beeome final and that I must therefore pay the tax, although I have not made a large profit in my first year. Is there anything I can do, please?

ASSESSMENT Notices, the first form received, state quite clearly that you have thirty days to appeal. You should certainly have taken it up at the time. If you employ an accountant you should have passed it to him. If appeal is not made within thirty days the assessment becomes final and conclusive and is then binding regardless of the fact that it may be excessive. In certain circumstances the Commissioners can accept late notice of appeal though in your case there seems to be no circumstances to justify that. Nevertheless an accountant may be able to persuade them to accept late notice in your case, on the grounds that it was your first year and you were not familiar with those matters.

## Onward from Galen

SIDELINES OF CURRENT COMMENT

**★** UNIQUE **★** 

A CORRESPONDENT whose wit deserves acknowledgment yet who withholds his name sends the following possible reactions of different readers to a recently published news item that an intruder stole from a pharmacy "one only bottle of cough mixture": "He may have had a cough"; "Sufficient unto the day. . . ." "A discriminating customer"; "Only confirms the need for a twenty-four-hour service"; "Quite an unsolicited testimonial"; "That must have been the chap I heard muttering 'Eureka'."

## Centenary meeting of the British Pharmaceutical Conference, London SECOND PROFESSIONAL SESSION

## **Education for Pharmaceutical Practice**

D. A. NORTON, B.Sc., F.P.S., D.B.A., A.C.T., and F. H. OLIVER, B.Sc., B.Pharm., F.P.S., A.C.T.

[ABSTRACT] BEFORE considering pharmaceutical education it will be wise to decide what the functions of a pharmacist are. Unfortunately, many confuse pharmacy with dispensing. Dispensing is work that can safely be entrusted to a technician with the necessary manipulative skill, provided his work is adequately supervised. The pharmacist, on the other hand, must be a technologist—one who not only possesses the necessary manipulative skills but who also has sufficient knowledge of the materials he handles to know all their potentialities and dangers and who understands the reason underlying the processes he employs in the course of the practice of his profession. The pharmacist is an expert on drugs, who is available to give advice to the prescriber; and by the control he exercises over the supply of poisons and dispensed medicines, he is able to safeguard the general public. He is also able to safeguard the public against the danger of self medication. As well as knowing drugs the pharmacist must, if he is to fulfil his responsibilities under the National Health Service, have considerable knowledge of surgical items he may be called upon to supply.

## When Apprenticeship was Necessary

Pharmacy began as an art and a craft and so it was natural that at first the educational needs of the profession should be met by a long apprenticeship and that the whole of pharmaceutical education should take the form of training within the job." As pharmacy began the slow process of development into a science—a process that is as yet by no means complete so training within the job became less and less satisfactory as a method of education. It is notable that the first charter of the Pharmaceutical Society of Great Britain in 1841 laid upon the Society the responsibility of educating potential pharmacists, apprenticeship being supplemented by a short course of instruction at a school of pharmacy. So long as most of the manipulative processes used in the practice of pharmacy were being carried out in the pharmacy, and while materia medica remained relatively static, the apprenticeship system proved a satisfactory method of giving the future pharmacist the major part of his education. But when, after the 1914-18 war, the industrial revolution caught up with pharmacy, the length of the college course had to be increased and that of the apprenticeship correspondingly reduced.

It again became clear in the 1950's that rapid changes were occurring in pharmacy—in particular, manipulative work was diminishing as the number of prescriptions calling for proprietary medicines increased. That meant that the schools would have to assume a greater responsibility for the teaching

of the practical aspects of pharmacy. To allow for that, and to accommodate the additional pharmacological training required to enable the pharmacist to retain his position as the expert on drugs, the college course was, in 1958, lengthened to three years. At the same time the period of practical training was reduced to one year. Under present regulations, the student is no longer required to keep a record of the work he carries out during his training, and it is hoped that the relaxation of the regulations affecting the training of students will encourage more pharmacists to undertake that important service for their profession.

### Advantages of a Sandwich Course

It may be wondered why, at a time when many professions are training their students by the so-called "sand-wich" course system, whereby the course system, whereby the period of practical training is integrated with the college course, the Pharmaceutical Society should prevent its students from undertaking their practical training between the various parts of the qualifying course. A course during which the student serves his period of practical training between the second and third year has much to commend it and, if suitable co-operation between pharmacists in general practice and the schools of pharmacy could be obtained, it would not only benefit the student by enabling him to come into contact with actual pharmaceutical practice before sitting his final professional examination but it would ensure continuity in the supply of students to those establishments training them. It would also enable the college to benefit from closer contact with pharmacists in practice.

It may be well to consider briefly what can and what cannot be taught in a school of pharmacy. The school can quite successfully impart that knowledge of the sources, properties and available forms of all medicaments which the pharmacist must have if he is to justify his position as the expert on drugs. It can teach the student how to handle and store the medical gases, surgical dressings and surgical appliances that a pharmacist may be called upon to supply and it can enable him to acquire the technical skills required for the extemporaneous compounding and dispensing of medicaments. It is also possible to teach the law as applied to pharmacy and the pharmacist's responsibility to his customers, his employer, his employees and to the members of the other professions with whom he comes in contact.

In the study of pharmacology, pharmacognosy and pharmaceutical chemistry the student learns how drugs may be tested for purity and activity. College courses can also include instruction on the general basis of buying, stockkeeping and business methods.

If we are to appreciate the essential rôle the practising pharmacist has to play in the training of students we must know what the pharmacy student cannot acquire during his college course. First, there is experience in actual dispensing, for there is a subconscious difference in the approach to preparing a bottle of medicine which is going directly down the drain, and making one which will be taken by a patient. Second is the application of the student's pharmaceutical knowledge to the everyday running of a pharmacy. Third are experience in the control of staff, a sense of responsi-bility to superiors, and the correct method of approach to the general public and to colleagues in related professions. A code of ethics may be a useful guide to correct professional conduct, but in the long run such conduct comes only from the right approach to the responsibility of the profession. Such an approach can only be taught by example. It is by his behaviour, and the way in which he meets the stresses, strains and tempta-tions that occur during the day-to-day running of a pharmacy, that the pharmacist teaches his student most.

### **Fundamentals**

Now that the course for the Qualifying examination occupies three years, it is possible to use the first year to teach those fundamentals of science which form the basis of pharmacy, and in the second year to give instruction in the application of those fundamentals. The Pharmaceutical Society has recently encouraged schools to make their individual approach to the teaching of the syllabus by setting special Part I papers for each school of pharmacy based on the work carried out in that school and by allowing the practical examinations to be held in the schools where the students are taught. Those developments, together with the extra time made available because the curriculum has been spread over three years, at last enables the schools to give their students a liberal education instead of a "cram" course for an examination.

During the first year of his course the student studies physiology, organic and physical chemistry, the fundamentals of pharmacognosy. Although there is no pharmaceutics examination at the end of the first year, most schools include instruction in microbiology and other fundamentals of pharmaceutics, as well as practical dispensing classes. Dispensing is a technique and skill best acquired over the three-year period of the course. In the second year the students complete their studies of microbiology, pharmacognosy and most of the theoretical as well as all the practical aspects of pharmaceutical chemistry, they extend their knowledge of general pharmaceutics. Some

physiology and pharmacology is included.

The student who passes Part II in pharmacognosy, pharmaceutical chemistry and pharmaceutics, is ready to embark on the final year of his course. During it the greater part of his time is devoted to a study of pharmaceutics. He is taught how to apply the knowledge he has already acquired to the problems he is likely to meet during the practice of his profession. Instruction in pharmacy law is included under that heading. In addition to pharmaceutics, he studies a special branch of pharmaceutical chemistry which may perhaps best be described as medicinal chemistry, for it is devoted to the relationship between the chemical structure of drugs and their pharmacological and pharmaceutical properties. The third subject that makes up the curriculum of the final year is pharmacology, which not only enables the pharmacist to fulfil his function as the expert on drugs, but also exerts a unifying action on the studies of the final year. The link between those subjects is so close that it is now possible to teach students to integrate knowledge which formerly they used to keep in separate compartments. The examination consists of pharmaceutics, including pharmacy law, pharma cology and pharmaceutical chemistry. law, pharma-

The strength and purpose of the new course thus clearly emerges in the third year, where the subject matter of pharmaceutics provides a meeting point of all the foregoing basic studies. No claim is made that tuition in a school of pharmacy can replace practical experience: the most that can be done is to stimulate development of a broad understanding of what is involved in good pharmaceutical practice, to encourage development of professional ideals and resistance to some of the forces that may react against them in practice.

## Visiting Lecturers

Both schools represented by the authors benefit from the services of retail and hospital pharmacists who are associated officially with the teaching institution as visiting lecturers. Those visiting teachers are supported by other specialist speakers, sometimes operating as panels when a symposium is held to deal with the subject in hand, for example "industrial pharmacy." Other topics such as "contract law," "stock control," "professional and general liabilities," "the rôle of pharmaceutical organisations," are presented adequately to the student as an integral part of the course. Considerable importance is also attached to the provision of some background knowledge of the history and development of pharmacy in Britain.

A valuable contribution towards the understanding of basic ethics and standards of professional conduct can also be made by the teacher. If the subject is introduced alongside legislative topics a useful distinction can be drawn between law on the one hand

and ethics on the other.

Bristol provides facilities for a large range of elective subjects and periods are set aside for the whole College, thus bringing together students with common interests but from different disciplines. Expert lecturers are available in such diverse subjects as psychology, criminology, music, oil painting, drama, and comparative religion. In Sunderland there have been series of lectures on special topics such as "Psychology and Learning," and "British Economic History" and a more liberal approach to the teaching of the actual subject of the course has been made. Completing the picture of optional studies is the availability to students of the short courses run primarily for the benefit of those who have already qualified.

We hope that we have been able to give not only a picture of some of the problems facing pharmaceutical education today and of the ways in which those are tackled in the schools, but have also shown why it is so essential that the practising pharmacist should play his part by teaching the new graduate to apply the knowledge he has acquired in college to the problems of the day to day running of a pharmacy. What we have said should make it clear what a pharmacist may and may not expect from his student.

One of the most important outcomes of the changed regulations is that the Society's qualification is now recognised as being of degree standard. That should elevate the stature of the profession. The pharmacist who is prepared to accept his student as a junior colleague, and is not only willing to help him with his problems but also, by his example, to teach him the correct approach to the responsibilities he will have to accept as a pharmacist, is doing a great service to his profession. He will also have the satisfaction of seeing a raw student develop into a responsible member of the profession. As students, we ourselves were impressionable, and our approach to phar-macy was largely conditioned by the example of our apprentice master and other teachers. The greatest service any man can render to the community in general and to his profession in par-ticular is to hand on his skill and knowledge to his students, for it is only in that way that the future of the profession can be assured.

### Discussion

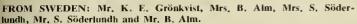
Mr. J. K. Callow, Bournemouth, pointed out that the authors had said that the Society's qualification was now recognised as being of degree standard. If that were true it implied that the degree was better than a diploma. "If the diploma was different from the degree should we not throw out the diploma? It was a reversion to the days of the major and minor examination. Mr. OLIVER replied that the Burnham Committee had for the first time recognised the Society's qualification as being equivalent to the degree. In pure chemistry the A.R.I.C. award was recognised as being equivalent to a degree and it was clear that in the A.R.I.C. examination the emphasis was on the practical aspects whereas in the B.Sc. course, the theoretical side was emphasised. It was a question whether the student had a practical or theoretical outlook. Mr. Donald Hudson, Hove, joined issue with Mr. Oliver and with the Council of the Society on certain matters. Mr.

Oliver had stated that with certain notable exceptions individual private pharmacists had not been prepared to make their proper contribution in the training of students. In certain instances that was a fact but he drew attention to the absence of any organised plan to ensure that pharmacists were kept supplied with material to train. The Council of the Society and the teachers must realise that they had a responsibility in this matter otherwise students would be replaced by trained technicians in establishments that could provide adequate training. The Council should ponder seriously upon the problem. It was a matter of importance. Mr. OLIVER said he had always been worried by the fact that the number of students registering with private con-cerns was very small and he agreed there was an absence of an organised plan. He appealed to those who could train pharmacy students not to fill their places with permanent assistants. The reason for the shortage of students was a simple one, and resulted from the replacement of the intermediate examination by the G.C.E. at advanced level. It meant that students were not coming from schools until they were about eighteen years of age and therefore there was a gap in the stream of students coming in. Mr. S. WOZNIAK, Dunfermline, asked whether it was not time for the introduction of a special course, after qualification, to prepare members of the profession for work in hospitals. He also suggested there should be post-graduate diplomas, Mr. OLIVER agreed there was a real need for such diplomas. The situation was gradually being made good in universities by the introduction of the M.Pharm. and Ph.D. qualifications, but introduction of the there was a need in pharmaceutical education that might be met by the introduction of post-graduate diplomas.

## The "Royal Stables"

Mr. H. HUMPHREYS JONES, Liverpool, said that in 1841 the Pharmaceutical Society was given the duty to ensure that suitable entrants became pharmacists. From that time until the end of the 1914-18 war the Society did nothing to implement that responsibility, except to establish a School of Pharmacy that he, in the past had described as "the Royal Stables." It should be realised that but for the work by the private schools there would not have been a Pharmaceutical Society. Another serious mistake was that the Society had not compelled apprentices to pass the preliminary examination before entering pharmacy. As a result, a host of drug stores were established. Mr. K. I. KUDISH, Finchley, believed that modern training appeared to teach the student everything but responsibility. That could only be taught in a pharmacy. He suggested that the student should be allowed during his period of practical training to take occasional control of the pharmacy. Mr. Norton said that it was quite impracticable at the present time. He could not see any way out of the current legal situation. Dr. I. MICHAELS suggested that the idea of a student serving his period of practical training between the second and third year of his course should be fol-







Mr. and Mrs. H. Z. Youssef, United Arab Republic, Mr. A. B. Shrestha, Nepal, and Mr. A. A. Sakr, Egypt.

lowed up. It might be desirable that a certain proportion of that period should be served in hospital pharmacy. The present one-year practical period did not give an opportunity "to do all one could for a pupil . . . one might desire to send students on photographic or language courses." After his third year the student should be made to feel that he was welcomed into pharmacy and in that matter the Society should take a hand. Dr. Michaels suggested that training by an individual pharmacist was better than by an organisation where managers could come and go.

### Continuity of Training Possible

MR. OLIVER said that if practical training was taken between the second and third year of the course it would enable continuity of training to be maintained. In the present circumstances their problem was that they had to deal with individual pharmacies in respect of each student. Local branches could play a part in the training of students by welcoming them to their meetings and to the branch when they enter an area for their practical training. Mr. Norton foresaw a number of problems associated with integrating a scheme of practical training through a large number of branches of the Society, but the National Pharmaceutical Union might assist in providing the contact with suitable retail pharmacies. DR. FRANK HARTLEY, London, said so far the discussion had been confined to general practice but a grave disservice would be done to the profession if the objectives of the educational efforts in pharmacy were misrepresented. He wished to take issue with the authors who had referred to the pharmacher. macist as being unique in the Health Service and as an expert on drugs. "Manifestly he was not an expert on drugs," said Dr. Hartley. There were of course many definitions of the word expert. It seemed that in relation to medicine, pharmacy had so easily accepted second place, yet everyone knew the limitations in the general practice of medicine concerning the knowledge of drugs. Some pharmacists were demonstrating to their medical colleagues that a very great deal of guidance about drugs and their action could come from the pharmacist. "I think that unless we are very clear about this, we shall be masquerading if we continue with the theory that the pharmacist is an expert on drugs. he is an expert on some aspects of the handling of drugs, but he is not an expert on the action and use of drugs. Today the doctor prescribed by pro-prietary names and knew all too little about the products he was handling. It might be that the pharmacist in the future would have a hand in prescribing. If that trend developed the profession would have to recognise the concept of general practice. Mr. OLIVER agreed that to define a pharmacist as an expert on drugs was stating it too widely. He believed that Goodman and Gillman had described pharmacy as a branch of pharmacology since it dealt with the available forms of drugs. Unless the pharmacist became acquainted with all the various forms of drugs he would not be able to maintain his place in the Health Service. If Dr. Hartley was suggesting that the pharmacist needed to be more highly trained than at present Mr. Oliver would agree.

## Pharmacy and Dispensing

He thought that in the future a great deal of the routine work could be done by technicians. There was little doubt that some pharmacists confused pharmacy with dispensing. Dispensing was a skill that could be learned in a relatively short time, pharmacy was a body of knowledge that could only be acquired over a period. MR. S. G. E. STEVENS, Welwyn Garden City, believed that educational establishments should provide students with an insight of what would lie ahead. Did the authors think the present system was adequate? His preference was for a sandwich course in which part of the third year should be compulsorily spent in retail pharmacy and the other devoted at the students' option between hospital and industry. Mr. Norton replied that Mr. Stevens' scheme was similar to that he had in mind. He had been perturbed about the past emphasis on technological training instead of education. He would like to see a pharmacist broadly trained to a good standard of education and "able to project a good image," and reserving his specialised technological training for higher qualifications. Mr. J. R. PHILLIPS, Bournemouth, sought clarification on matters of practical training. To him the importance of the practical training year had been reduced progressively. Mr. Phillips told his audience that shortly he would have to sign a paper stating that a student had completed his training with him. "What exactly am I signing?" he asked, "Is it

that the student has been within my sight and sound for twelve months or that he has been honest, clean and punctual, or am I signing something more?" A student could be academically brilliant yet be an absolute rogue, in such a case would the pharmacist be justified in signing the paper? MR. OLIVER did not think there had been a reduction in the importance of practical training but suggested that there had been a change in emphasis. Provided the student worked under a pharmacist, and provided the pharmacist set the right example and standard of professional conduct, that was the most important factor. Mr. Oliver also posed the question whether or not it would be wiser to prevent a newly qualified person from taking sole charge of a pharmacy for a period of two or three years. The responsibility for signing the paper certifying that a person had served a period of twelve months training, and was a suitable person to go on the register had been placed fairly and squarely upon the pharmacist who trained the student.

## Advantage Over Teacher

Mr. OLIVER, in a reply to Mr. S. Dur-HAM, Sheffield, indicated that he thought that the pharmacist had a better oppor-tunity of giving the student the sense of responsibility than the teacher who was concerned with a group of students rather than individuals. MR. M. CRANE. North Shields, considered that experience was the only teacher but it often exacted a high price. He suggested that pharmacists who were bedevilled with stocks of high-priced proprietaries on their shelves might have a word with their local pharmacy teachers and perhaps make the products available to them. Mr. N. Marsh, Liverpool, thought that the period of practical training should be taken before the college course but MR. NORTON replied that experience in schools of pharmacy indicated that it depended upon the quality of training received.

MR. F. J. REYNOLDS, Birmingham, suggested "We should get back to terra firma." He thought that teachers should encourage students to attend branch meetings. He admired the training given by the multiple organisations and considered that the profession could not afford any division in the ranks between multiple and private pharmacy by ill-informed criticism. The reason why pharmacists did not wish to take apprentices was that twelve months was

not sufficient time to cover such a wide subject. MR. W. FISHER, Leeds, found many students reluctant to go out and meet the public. In his opinion the reception of a prescription was just as important as dispensing. He wanted to know what the universities were doing. MR. NORTON considered that it was bad policy to have a pharmacist behind the dispensing screen doing menial jobs. The proper place for him was in contact with the general public. Neither of the speakers had any experience of what the universities were doing.

MR. G. K. BENTON, Lincoln, said it would seem that the student required some help and possibly protection when choosing a training establishment. MR. OLIVER did not consider the pharmacist needed to be a teacher. All he needed to do was to let the student see how he dealt with the public.

DR. R. C. KAYE, Leeds, said that the university had to be a department of knowledge, and pharmacy was expanding at a rapid rate. It was felt therefore there was not the time to devote to the teaching of dispensing practice. Never-

theless, since the degree was accepted for registration purposes, a full course of dispensing was taught, but they considered that it could best be learned in the pharmacy. It was now part of the Leeds degree requirements that every student must do six weeks in a specified pharmacy during the long vacation.

MR. J. T. MEARNS, Bristol, said there were pharmacists in Bristol who would be willing to train students but could not afford to do so. The hospital pharmacist was training students "out of public funds, the private pharmacist out of his pocket." He suggested that the Council ought to consider the possibility of students' obtaining grants for the whole of the course.

Comments on the wisdom of allowing a person to carry out his practical training in a school of pharmacy were sought by MR. J. I. HARRIS, Bristol, and MR. OLIVER pointed out that, without that arrangement, there would be a batch of persons who could not be registered but who would play an important part of teaching pharmacy. As

a retailer Mr. A. Cowan, Bannockburn, said that, in training a postgraduate student, the pharmacist himself could obtain advantages. He felt that the mock dispensaries, as used by the authors, must be beneficial in that students were given experience of an ideal situation and that was bound to influence their future outlook.

PROFESSOR J. S. FABER, Holland, stressed how important was the contribution the pharmacist in general practice had to give to the pharmacists of the future. MR. R. H. EVANS (British Pharmaceutical Students' Association) said that two points had emerged: the bad liaison between general practice and the students; and students' concern with the future. That future was in the hands of all pharmacists. As students they wanted a successful profession and they needed guidance from the experienced pharmacist. MR. OLIVER suggested that the best way to get contact between students and pharmacists was through the local branch, the secretaries of which would welcome students at branch meetings.

## CONFERENCE WEEK PICTURES







PRESENTATIONS TO LONDON COMMITTEE OFFICERS: Mr, and Mrs. A. Aldington receiving part of a dinner service, Mr, and Mrs. H. Treves Brown receiving part of a set of glasses, and Dr, and Mrs. K. R. Capper receiving a canteen of eutlery at the Conference ball.



Mrs. R. Clitherow, Liverpool, and Mr. A. B. Shrestha, Nepal.



Mr. T. Heseltine acknowledges Unichem Association's Benevolent Fund effort (see C. & D., September 7, p. 236).



Miss G. Wassel, London, and Mr. and Mrs. H. Z. Youssef, Egypt.





SPORTS AFTERNOON: Left, Mr. J. G. Coleman (registrar, Pharmaceutical Society of Ireland) sends up a wood in the bowls tournament, Centre, winners of the lawn tennis contest (Mr. A. Pirnie and Miss M. J. Bell) with Dr. P. Downes and Mr. D. W. Gore, Right, Mr. M. Costello, Dublin, drives from the first tee, watched by Messrs, G. W. Allan, Edinburgh, and R. W. Sarsby.





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Illy blended luxury shampoo plus a lint of colour, in one sachet, for regular use. Retail price 1/2d a sachet. Whole-te 8/- a dozen plus P.T. Available in active counter display outer, combit colour selector, which contains of each of the 5 shades; Wholesale 1/- plus P.T.

## Hair Magic

to use semi-permanent colouring ce in three series—Shampoo, Brusha Fantasy Series. The Brush-On has leated to cover and colour hair up to yand to restore colour to faded hair. Frice 3/6d. Wholesale price 2/- per us PT

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The lanolised ultra bleach for lightening and brightening the hair or for white bleaching. Retail price 3/6d per carton. Wholesale price 2/- per carton plus P.T.

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A permanent, non-fading, oil-based colouring which lightens, brightens, colours and conditions in one application. Ideal for covering grey or white hair. Retail price 4/8d. Wholesale price 2/8d per carton plus P.T.

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## Inecto Crème Hair Lightener

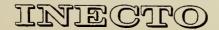
A soft, gentle creme which lightens the hair 3 to 4 shades and leaves it in superb condition. Retail price 3/6d per tube. Wholesale price 2/- plus P.T.

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An instant-action hair colour stain remover with a delightful perfume. Retail price 2/11d per bottle. Wholesale price 6/8d per carton of 4 plus P.T.

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the most complete range of hair colourings in the world



Bath Cubes 2 Soaps attractively packed with festive decoration 10/6

C602 Springtime in Paris Talcum Powder, 4 Bath Cubes, 2 Soaps



Bath Cubes 1 Soap, acetate covered in stylish pack

C257/8/9 Ashes of Roses, Violets or Lavender Talcum Powder and Soap. Cellophane wrapped, with Greeting Card



Lemons in Netlon Bag Christmas Tree Gifts

C248/9/50 Ashes of R Violets or Lavender Ta Powder, 2 Bath Cubes, 1



C260/1 Ashes of Roses or Violets, Perfume Novelty for the Christmas Tree 3/6



C280 Premier Muguet Talcum Powder, 2 Bath Cubes, 1 Soap, with festive decoration 6/6



C275 Soir de Paris Perfume, Cologne, 3 Bath Cubes, 1 Soap with festive decoration 13/11

C262/3/4 Ashes of Roses, Violets or Lavender Talcum Powder, 2 Bath Cubes, 2 Soaps 4/11



C254/5/6 Ashes of Roses, Violets or Lavender Cologne with 2 Soaps festively packed 5/9



C277 Soir de Paris Perfume, Cologne, Talcum Powder, 2 Bath Cubes, 1 Soap 17/6



## Blanket coverage for Dreamland dealers

Fourteen full page ads in seven mass circulation Sunday papers. This winter, Dreamland give their dealers all the comfort of blanket advertising coverage. Coming up for the peak winter sales period is a super-heated advertising campaign to give Dreamland the biggest, boldest, most exciting boost an electric blanket ever had. Advertising spending has been doubled to set off the biggest rush for electric blankets ever.

This big advertising which features the hard-selling 'Safety-Seal' story means that Dreamland dealers will be peak-time busy right through to spring. And thanks to 'Safety-Seal' Dreamland dealers have no worries about safety standards. Dreamland technicians have checked the complete 'Safety-Seal' range against the new B.S.I. specifications. They are confident that Dreamland will pass the new standard... and pass it comfortably. Remember: every Dreamland blanket is triple-tested and guaranteed for three years.



3-HEAT LUXURY WITH 'SAFETY. L' SINGLE BED (60"x30") Model3FS.2 £ 2 DOUBLE BED (60"x48") Model3FD.2 £ 11

NEW STANDARD WITH 'SAFETY. I' SINGLE BED (60" x 30") Model FS £5.1 <sup>0</sup> DOUBLE BED (60" x 48") Model FD £7.2

STARLET WITH 'SAFETY-SEAL'

Available in one size only:
(48" x 24") Model SL £4.8

Dreamland Blankets have a great Seal to recommend the Easipower Appliances Limited · 30 High Street · Southampton · Telephone Southampton 27948

## But once year

A quick look at some of the attractions offered by manufacturers to tempt the purchases of Christmas-present buyers















Silk-lined casket holding de-luxe measured per-fume and parfum de toilette in l'Aimant; and gilt evening purse, 75s COTY

Novelty case with greeting card on reverse containing skin perfume and two toilet soaps 8s MORNY

Early Morning Special locomotive carrying Lazy-shave and after-shave lotion. 13s 3d FACTOR KEY TO MANUFACTURERS, p. 287

Special Appointment dusting powder and skin perfume in transparent container 13s 3d GRAY

Six assorted bath salts tablets scented with Autumn Fern, Heart of a Rose, Lily of the Valley, Golden Morn, Forget-me-not, Bunch of Violets, 3s DUBARRY

Mavala Scientifique Swiss nail hardener in Christmas cracker pack. 18s 6d SAMUEL

















- Wood box of twelve lemon soaps, 20s; casket of six assorted fruit soaps. 10s; rectangular basket of twenty strawberries, 13s 6d NORTON
- 3
  Floral Mist and diamond-patterned glass scent spray with miniature funnel, In Heart of a Rose and Forget-me-not fragrances, 8s 6d DUBARRY
- Chantage range of perfume and bath products (talc, bath cubes and toilet soap, 8s 6d; three soaps in coffret, 6s 9d; talc and bath cubes, 6s; talc and parfum de toilette, 15s 6d) ATKINSONS
- 4 Autokit first-aid outfit in Christmas sleeve. 15s 6d JOHNSONS
- Golden casket holding Hi-Five compact, Fashion Matte lipstick, Hi-Fi eye shadow stick, mascara wand, eye pencil and phial of Hypnotique perfume. 46s 9d FACTOR
- Gold Brocade cream perfume and talcum powder, soap and bath cubes. 15s P&M
- Old Spice pre-electric shave and after-shave talc, 14s. 9d SHULTON



















8
Midnight skin perfume and bath essence in transparent drum to hang from tree. 9s 9d GRAY

14

11
Lavender talcum powder, foam bath and toilet soap. 22s 6d YARDLEY

14
A: Sortilege talcum, perfume and parfum de toilette gift box, 25s. B: Sortilege talcum and perfume gift box, 35s GALION

Monogram Automatic electric blanket. Big enough to tuck in at sides. In rose pink, Capri blue or Sea foam green, 60 x 85 in. 231s; 80 x 85 in. 273s; dual control double 315s MONOGRAM

15

12
Omy bath essence, dimple bottle in transparent box, 6s 6d CULLINGFORD

Guards for men talc, after-shave and hair cream in gift box. 12s 6d P&M

IO
White Mink handbag perfume in Christmas cracker, 5s 6d STEINER

13
Mitcham lavender perfume and four bath cubes, 5s P&M

KEY TO MANUFACTURERS, p. 287

# André Philipp



### DIMPLE BOTTLE BUBBLE BATH

Fragrontly perfumed with french Pine. Exceptional Volue No. 2. 12/- per doz. 25% P.T. Retails 1/9. AN ACCEPTABLE GIFT

In four delightful colours:- Old Gold · Emerald Green Lagoon Blue · Coral Red.

## SWAN DIMPLE BUBBLE BATH

A most elegantly shoped bottle. No. 3. 6 oz. 25/- per doz. 25% P.T. Retails 3/9.

USEFUL FLOWER VASE WHEN EMPTY



## Christmas Gifts

## "ANOTHER WINNER"

## BATH SALT VASE

Three Attroctive Colours, Pink, Turquoise, and Lavender. Three Delightful Odours, Cologne, Rose

and Lavender. AN ELEGANT USABLE VASE

No. 17. Price per dozen 8/6 plus 25% P.T.

Retail Price 1/3 Packing I Dozen Assorted



## "NEW ELEGANT"

## SCENT SPRAY

ALL GOLD MOUNTS Assorted Pink, Lavender and Blue Bulbs.

Price per doz. 20/-plus 25% P.T.

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WATCH NEXT WEEK for a Fabulous New XMAS GIFT!





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We shall be pleased to send you a complete price list on request





















Le Numero Cinq talc and eau de Cologne, 27s MOLYNEUX

Onyx after-shave lotion and bath soap, 13s 6d LENTHERIC

Pompadour-like candle novelty in gold and black presentation box. A three-in-one candle in red, green and yellow, each section burning for sixty hours. Glass jars serve later as containers, 63s PRICE'S

King's Men pre-electric shave lotion, after-shave lotion and talc in Royal Gold shaving

Blue Hyacinth bath crystals and talcum powder in polythene jars, 10s CUSSONS

Pine coffret of four toilet soaps, four bath cubes and large-size bath essence. In dark green and gold box. 19s 1d BRONNLEY

Pífco pierrots and snowmen Christmas decoration set (box of twenty). 32s 6d PIFCO

KEV TO MANITEACTURERS n 287

Femme perfume atomiser in black lace design. 103s ROCHAS

Scent spray with pink, lavender or blue bulb. 2s 11d PHILIPPE

## WHO BUT PIFCO

offer Britain's widest, finest range of electric blankets



There's a Pifco Blanket to suit every taste, every pocket. Twelve models from 69/6 to 246/-, every one covered by three-year guarantee. Delicious colours . . . luxurious materials . . . display boxes that sell themselves. Make sure your Pifco range is on display—so your customers can buy.





















Arden for Men wooden gift box containing eau de Cologne, travel soap and after-shave lotion, Sandalwood, 48s 6d ARDEN

Christmas tree bauble of Tweed perfume.
16s 6d LENTHERIC

Acculux rechargeable torch in carton with Christmas tree cut-out insertion. 34s 9d CHILTON

4711 eau de Cologne and talc in coffret. 12s 9d S&B

Full-size wicker wine cradle holding matching toilet water, talc and soap. 55s 6d FLORIS

Desert Flower hand and body lotion and tablet of toilet soap, 10s 6d SHULTON

Coffret holding Mitsouko perfume, eau de Cologne, bath essence, dusting powder and iasmin and l'Heure Rieue soans 253s GUFR-

Aquamarine moisture lotion and eau de toilette, 21s 6d REVLON

Je Reviens sport atomiser, parfum de toilette. 52s 6d WORTH

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llona handbag perfume spray by Bartex, Cut glass model 13s 11d. Flower painted porcelain model, 15s 11d FRANKS

Je Reviens eau de toilette and talc in box. 36s WORTH

Florineige coffret de fleurs in five different perfumes with assorted flower motifs, 10s 6d U.C.S.

Imperial Leather talcum powder and six bath cubes in box 5s 6d CUSSONS

Mémoire Chérie gift box containing hand lotion and dusting powder. 25s 6d ARDEN

Outdoor Girl Secret Magic compact with swivel lipstick in satin-lined box with trans-parent lid. 6s 3d PICKER

Perfume trio coffret containing three cut crystal bottles of Chanel No. 5 perfume, Bois des Iles and Cuir de Russie respectively. 115s CHANEL

10 Eight night lights and two red glasses in Intimate eau de toilette and talc, 26s 9d REVLON

Gilt wallet holding Shadow Soft eye shadow, mascara, and eyebrow pencil, 35s 9d INNOXA

## WHO BUT PIFCO

makes Britain's only Massager-to beat aches and pains



Everyone who ever has an ache or pain benefits from the Pifco Massager—men and women, old and not-so-old. The Massager is even more irresistible in the new presentation box—now with five separate applicators, 84/- complete. Help the nation fight its aches—help yourself to good profits at the same time.

PIFCO'S BIGGEST EVER ADVERTISING CAMPAIGN HELPS YOU SELL!



























Lavender bath crystals in vase, 1s 3d PHILIPPE

Bristow's Star Spray in Christmas wrapper.
8s and 11s COUNTY

4711 Tosca spray Cologne. 15s 9d S&B

Nivea coffret containing one tin of Nivea creme, bottle of Blue Velvet hand lotion and tablet of Nivea soap. 4s 10d SOUTHALLS

Christmas tree set. Cutex oily polish remover, regular nail polish, emery board, manicure stick and cotton wool. 4s 10d GAMBLES

Cream of Cactus moisturising lotion in transparent drum for hanging on tree. 11s 6d HUDNUT

Drum of bubble bath in choice of Golden Morn, Forget-me-not, Heart of a Rose, Autumn Fern, Lily of the Valley and Bunch of Violets fragrances. 3s 6d DUBARRY

Corvette miniature after-shave lotion and talc and Corvette after-shave gift containing after-shave lotion. 5s 3d and 7s SEYMOUR

Plastic apothecary jars (white with floral design; black with gold design). 4s 11d NORTON

KEY TO MANUFACTURERS, p. 287

## WHO BUT PIFCO

produces Britain's best value in Health Lamps



Pifco Health Lamps have made winter bearable for thousands, have stopped millions of aches and pains and general ills. There are seven separate models, ranging in price from 67/6 to £12.12.0. It may be a bitter winter—in any case you'll sell more Pifco Health Lamps than ever.





THE CHEMIST AND DRUGGIST, September 14, 1963 281 Annual Christmas Goods Number



















Cosmetic set, Miner's One and Only, Make-up, lipstick and nail colour in gold foil box with transparent lid, 5s 6d MINERS

Acetate and gold drum containing Personality handbag-size turtle-oil hand cream and cleansing milk. For hanging on tree. 3s 6d PERSONALITY

Plastic peacock bath-salts novelty in carton.
4s 6d SORELLE

Children's Sooty shampoo novelty, 3s 11d CULLINGFORD

Soir de Paris perfume in diamond shaped novelty pack with gold tinsel card for hanging. 5s 6d BOURJOIS

4 Together satin talc, cologne and perfume. 4s 9d, 7s and 8s 6d FIELDS

Cutex Globetrotter (nail polish and remover, cuticle remover and oil, "dispenser" for cotton wool, manicure cutlery). In red imitation leather. 21s GAMBLES

10 Miner's hair lacquer in plastic spray bottle with refill. 2s 9d PICKER Amanda French Pink talc, two bath cubes and soap in coffret. 5s 2d FIELDS

Tiara hair mist and bouquet in transparent box. 31s LENTHERIC



















2 Stag after-shower talc, 7s 6d; brushless shave foam, 7s 6d; shampoo and hair cream in gift box, 12s 6d; pre-shave lotion, 7s 6d REXALL

Midnight dusting powder and skin perfume.
18s 9d GRAY

Hi-Fi fashion set containing Hi-Five complete make-up and Fashion Matte lipstick refill, 10s FACTOR

4 Hair-control cream, shaving soap and after-shave lotion 20s 2d YARDLEY

5 White Mink de-luxe coffret with purser-size perfume, talc, toilet water and moisture milk, 37s 3d STEINER

**7**Gift coffret containing soap and bottle of Cologne Maja, **18s 6d SIMON** 

6 Coffret containing bath essence, toilet powder and toilet soap (Jasmine, Ormonde, Rose Geranium or Stephanotis), 39s FLORIS

8
Bath disk and six bath salts tablets. 5s 9d
Dusting powder, two toilet soaps and four



















Gala puffer talc and gilt perfume spray in satin-lined transparent box tied with ribbon in Viva (aquamarine), Heavenly (blue) and Ballet (pink) 21s PICKER

Gaiety Girl plastic foam crinoline filled with feather bath salts. 8s 6d GOULD

Lady Manhattan gift set No. 2. Presentation box of talc, Cologne and two soaps, 17s 9d FIELDS

Le Numéro Cinq talc and eau de Cologne, 27s MOLYNEUX

Dreamflower talc, Cologne and three bath cubes, 7s 9d; talc and six bath cubes, 5s 1d; talc and Cologne, 6s 1d. Angel Face Christmas card mirror compact and lipstick, 7s; Pond's cold, foundation, and dry skin creams in box. 5s 6d CHESEBROUGH

No. 4711 Tosca Cologne, perfume and talc. 15s 6d. No. 4711 Rhine lavender talc and Lavender. 8s 9d S&B

Two miniature jars of Ambray bath salts (Blue Rose and Bouquet des Fleurs) in window pack. 7s 6d. Ambray bath salts in polythene container (replica of Versailles design jar). 3s 6d. Ambray bubble bath in window box. 5s 11d HOLLOWAY

Coffret containing two tablets of turtle oil toilet soap, two bottles of hand lotion, four bath cubes. In English geranium and lavender or English fern and verbena, 10s 8d BRONN-LEY



Teeth hold. Hence the special springy 'tooth' design in this latest solid powder compact. It's the Stratton Cachette. Slip the powder tray in, the 'teeth' hold it firmly in place. There's no rattling or movement. And no powder is ever wasted because the entire surface is exposed to the puff.

Notice the Cachette's new streamlined look. A gently bevelled edge gives it new smartness and *chic*. The wonderful range of elegant Stratton patterns makes it a joy to give—and to possess. Most practically simple solid powder compact ever designed, the Cachette will be instantly popular. Stock up right away!





Manufactured by Laughton & Sons Ltd., Warstock Rd., Birmingham

















Dainty lights "in box containing eight night lights and two red glasses. 10s 6d. Cathedral light candle with reproductions of stained glass windows of Chartres cathedral. 13s 9d PRICE'S

Pyramid feather-soft nylon-filled baby hair brush, comb and rattle in presentation pack 7s 6d SPA

Huckleberry Hound and Yogi Bear money banks, filled with feather bath salts. 6s 11d GOULD

Perfumed soap miniatures in various fruit shapes 15s and 27s 6d and perfumed table candle, hyacinth, 15s NORTON

Novelties filled with bath salts. Loppylugs 6s 11d. Santa boot. 3s 11d. Snow skier. 5s 11d JACKEL

Fétiche animal novelty perfume, assorted animals in various colours. 5s 6d U.C.S.

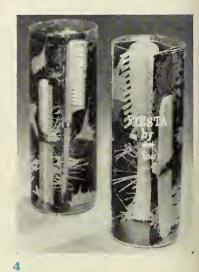
L'Aimant Measured Mist in gift presentation. 25s. Perfumed hand soap assorted, l'Aimant, Paris and Muguet des Bois, 7s 9d, Creamy skin perfume and talc de Coty in gift set. 17s 6d COTY

KEY TO MANUFACTURERS, p. 287



















Christmas pack of twelve Bathjoys in choice of three perfumes. Designed so that opened flap of a "Herald Angel" reveals Christmas card interior. 5s RECKITT

Spontex bath oval with velour sponge in Netlon net bag with Christmas greeting card. 8s 3d SPONCEL

5 Lady Manhattan gift set No. 1 holding talc, perfume and Cologne in presentation box. 20s 3d FIELDS Above: Bath gift of Cologne, four bath cubes and soap. 7s. Below: Poodle gift box of talc, two bath cubes and soap. 5s 3d SEYMOUR

Toledo hand lotion and talc, 12s 9d, Paris Mist beauty soap and three bath cubes, 5s 6d INNOXA

8 Nivea soap in Christmas pack, 4s 10d SOUTHALLS 4

Fiesta four-piece hair-styling set (hairbrush, comb, curl brush, dressing comb and cloth-brush). 9s 6d SPA

Gift box of Maja 1-oz. Cologne and two large toilet soaps, 22s 6d SIMON







Pifco Gemlites Christmas decoration set (box of twenty), 14s 11d PIFCO

Neptune gift of Corvette pre-electric shave lotion and talc, 7s 3d SEYMOUR

Veneto skin perfume in miniature gondola. 19s 3d INNOXA

#### **KEY TO MANUFACTURERS**

ARDEN = Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1. ATKINSON = J. & E. Atkinson, Ltd., 17 Besse-mer Road, Welwyn Garden City, Herts.

BOC = British Oxygen Co., Ltd., Sparklets Works, Queen Street, London, N.17. BOURJOIS = Bourjois, Ltd., Queens Way, Croy-

don. Surrey.

BRONNLEY = H. Bronnley & Co., Ltd., 10 Conduit Street, London, W.1.

CHANEL=Chanel, Ltd., 2 Old Bond Street, London, W.1.

CHESEBROUGH = Chesebrough-Ponds, Ltd., Victoria Road, London, N.W.10.

Electric Products, Ltd., CHILTON = Chilton

Hungerford, Berks,
COTY = Coty (England), Ltd., Coty House, 3 Stratford Place, London, W.1.

COUNTY = County Laboratories, Ltd., Beecham House West, Great West Road, Brentford, Middlesex.

CULLINGFORD = Cullingford of Chelsea, Web-

Road, Kirkby, Liverpool. IS=Helene Curtis, Ltd., 6 Albemarle CURTIS = Helene Curtis Street, London, W.1.

CUSSONS = Cussons, Sons & Co., Ltd., Kersal Vale, Manchester.

DUBARRY = Dubarry Perfumery Co., Ltd., Hove Park Laboratories, P.O. Box 184, Hove 4,

Sussex. FACTOR = Max Factor, "Hollywood and London

(Sales), Ltd., 16 Old Bond Street, London, FIELDS = J. C. & J. Field, Ltd., 225 Bath Road,

Slough, Bucks. FLORIS = J. Floris, Ltd., 89 Jermyn Street,

London, S.W.1. FRANKS=Alfred Franks & Bartlett Co., Ltd.,

226 Gray's Inn Road, London, W.C.I.
GALION = Parfums le Galion, Ltd., S Russia
Row, Milk Street, London, E.C.2.
GAMBLES = J. C. Gambles & Co., Ltd., division
of Chesebrough-Ponds, Ltd., Victoria Road,

London, N.W.10.

GILLETTE = Gillette Safety Razor Co., Great
West Road, Isleworth, Middlesex.

GOULD = John N. Gould, Ltd., 44 Old Bond Street, London, W.1. GRAY = Dorothy Gray, Ltd., 8 Grosvenor Street,

London, W.1.

GUERLAIN = Guerlain, Ltd., 22 Aintree Road,
Perivale, Greenford, Middlesex.

HOLLOWAY = E. R. Holloway Sales, Ltd., Bessemer Road, Welwyn Garden City, Herts, HUDNUT = Richard Hudnut, Ltd., Eastleigh,

Hants.

INNOXA = Innoxa (England), Ltd., House, 436 Essex Road, London, N.1.

JACKEL = Jackel & Co., Ltd., Shuna Place,
Maryhill, Glasgow, N.W.

JCL = Japanese Cameras, Ltd., SO Piccadilly, Tun-

Stoke-on-Trent, Staffs. JOHNSON = Johnson & Johnson (Great Britain),

Ltd., Slough, Bucks, KODAK = Kodak, Ltd.. Kingsway, London,

LENTHERIC = Lentheric, Ltd., 17 Old Bond

Street, London, W.1. MOLYNEUX = Molyneux et Cie (Designs & Per-

fumes), Ltd., 63 Grosvenor Street, W.I.

MONOGRAM= Monogram Electric, Ltd., Lincoln
House, 296 High Holborn, London, W.C.I.

MORNY= Morny, Ltd., 22 Wadsworth Road,
Perivale, Greenford, Middlesex.

NORTON = M. & R. Norton, Ltd., 9 Park Hill, London, S.W.4.

P&M = Potter & Moore, Ltd., Lavender House, Seymour Road, London, E.10.

PERSONALITY = Personality Beauty Products, Ltd., Derby Road, Ashby-de-la-Zouch, Leics. PHILIPPE = André Philippe, Ltd., 71 Gowan Avenue, London, S.W.6.

PHOTOPIA = Photopia, Ltd., Hempstalls Lane, Newcastle, Staffs.

PICKER = Myram Picker, Ltd., Hook Rise, Kingston-by-pass, Surbiton, Surrey.

IFCO=Pifco, Ltd., Pifco House, Watling Street, Manchester, 4. PIFCO = Pifco,

PRICE'S = Price's Candles (Distributors), Ltd., 87 South Lambeth Road, London, S.W.6.

PULLIN = Pullin Optical Co., Ltd., Ellis House, Aintree Road, Perivale, Middlesex.

RECKITT = Reckitt & Sons, Ltd., Sales Department, Hull, Yorks.

REVLON = Revlon International Corporation, 86

Brook Street, London, W.1. REXALL = Rexall Drug Co., division of Vantorex, Ltd., Morley Street, Loughborough, Leics.

ROCHAS = Marcel Rochas (England), Ltd., 19 Grosvenor Street, London, W.1.

RONSON = Ronson Products, Ltd, 352 Strand, London, W.C.2.

SAMUEL = James Samuel & Co., Ltd., S6 Fair-field Street, London, S.W.18. S&B = Scott & Bowne, Ltd., 50 Upper Brook

Street, London, W.1.

SEYMOUR = Jane Seymour, Ltd., Church Street,

Amersham, Bucks, SHULTON = Shulton (Great Britain), Ltd., Tre-vor House, 100 Brompton Road, London, S.W.3.

SILBER = J. J. Silber, Ltd., 11 Northburgh Street, London, E.C.1 SIMON = Creme Simon (Distributors), Ltd., 31a Bedford Street, Strand, London, W.C.2. SORELLE = Jean Sorelle, Ltd., 21 Turle Road,

London, N.4.

SOUTHALLS = Southalls (Sales), Ltd., Bessemer Road, Welwyn Garden City, Herts. SPA = Spa Brushes, Ltd., Freeman Works, Ches-

ham, Bucks. SPONCEL=Sponcel, Ltd., 40 Chancery Lane, Bucks.

London, W.C.2.
STEINER = Steiner Products, Ltd., Harvist Mews, Harvist Road, London, N.7.

U.C.S. = U.C.S. (London), Ltd., Cardinal House, 39 Albemarle Street, London, W.1. WORTH = Worth Perfumes, Ltd., 62 Grosvenor

Street, London, W.1.
YARDLEY = Yardley & Co., Ltd., 33 Old Bond
Street, London, W.1.

GROSSMITH

miner's

Fields

ROBERTS WINDSOR

Potter - Mon

Cussons
Cullingford
of Chelsea

STOCKING UP for Christmas?

THEPHOS OUT OF THE PHOS

Famous names with a feminine appeal

Sangers and their associate companies

and their associate companies

STOCK THEM ALL

Morny RES

POND'S

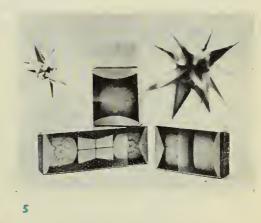
Saville NATION

















Cracker packs containing floral mist, foam bath, Shalimar hand lotion (assorted fragrances), 2s 11d; Perlysia bath sets (two soaps, two bath tablets and bath jewel), 2s 11d; Heart's Delight bath cachous 2s 11d; Drum of dusting powder (Heart of a Rose). 5s 6d DUBARRY

2 Omy twin pack (bath essence and sachet boule), 8s 9d CULLINGFORD

3
Blue Grass gift set containing oval dusting powder and hand soap. 19s 9d ARDEN

6 Blue Mink toilet water and handbag-size perSpa 4S4 men's military brush set (hairbrush, cloth brush and 6-in, comb), 17s 6d SPA

7
Onyx bath talc with unbreakable bottles after-

Personality flower soap and four bath cubes in Pink Orchid. 4s 8d PERSONALITY

8
Tiara bouquet and talc. 16s 3d LENTHERIC

















3 Feather Finish (peach), Flair spray mist de luxe and moisture creme lipstick (natural rose), 32s 6d YARDLEY Debonair after-shave, soap and bath fresheners, 9s 9d; Heart of a Rose soap, talc and two bath tablets with rose spray. 10s 6d DUBARRY

Jonquille bath set (soap, bath cubes, talc and Cologne). 19s FACTOR

6 Solaross binoculars—a representative example from range. 8 x 40 357s. 10 x 40 399s ROSS

Novelties in "hair-growing" soap. Algy the rabbit, 2s 11d; Father Christmas, 4s 6d; Minithe cat (with hidden mouse), 2s 11d NORTON

Tweed talc, bath soap, bouquet, three bath cubes and perfume. 59s LENTHERIC

7
Gillette Slim-twist safety razor in case, 6s 6d
GILLETTE



Major advertising campaign, with big build-up in November and December towards Christmas. Beginning in September, 26 peak spots on all ITV stations, **PLUS** powerful, big-space

advertisements in the *Daily Express*, *Daily Mirror*, *Daily Herald* will carry the Remington message. Altogether 90% of your customers will see this explosive campaign!

Show Remington shavers in your window...and sell more!

## An Ideal Christmas Gift...

### to suggest to your customers

HEART-SHAPED PERFUMED BATH SPUNGEE

#### SIX PERFUMES

SIX COLOURS

Lavender (Mauve) Verbena (Yellow)

English Rose (Pink) Freesia (Blue)

Lily of the Valley (Green) White Violet (White)

PRICES: 47/- per dozen (plus 25% P.T.) Retail Price (inc. P.T.) 6/11

Make sure that you include the SPUNGEE in your Christmas Display









#### **TOILET SPUNGEE**

Counter display tray as illustrated, holds six-0 of each colour-Blue, White, Pink, Green, Yellc and Lilac.

Two display trays in each outer.

PRICES: 16/- per dozen (plus 25% P.T.) Retail Price (inc. P.T.)

ORDER NOW through your usual wholesaler



Pifco flexible table lamp, 49s 6d PIFCO

7 Minette compact slide viewer. 42s JCL

4 Gillette adjustable Mark II safety razor with precision dial on handle and nine settings controlling blade exposure and angle, 12s 6d GILLETTE Ronson 400 luxury razor in presentation case, with coach-hide travelling case and coiled flex. 235s RONSON

**5**Corkmaster bottle opener in Christmas sleeve, BOC

Pifco Mignon sunlamp, 252s PIFCO

6 Sleeve. Pifco Vanity Curl curling tongs, 35s PIFCO

ВОС

8 Minolta 16-P camera with case, 233s 1d JCL KEY TO MANUFACTURERS, p. 287

# BUCK CAT IN COAL CELAR to boost 'Photoflux' sales!



Big, bold whole-page advertisements in the top photographic magazines will be selling Philips 'Photoflux' flashbulbs fast this autumn and winter. Using dramatic pictures like the one shown here, these advertisements will show dynamically just what can be done with flash photography. And they promote the whole range of Philips photographic lamps, too!

### ILIPS PHOTOFUX **FLASHBULBS**

give you more chances to use your cash-register!

#### BIG PRODUCTION SPEED-UP

Philips mean business with 'Photoflux'. They've doubled their production capacity to make sure that you'll get all the 'Photoflux' flashbulbs you order. So get ready for your biggest flash sales year — order fresh stocks of 'Photoflux' today.



PHILIPS ELECTRICAL LIMITED, LAMP AND LIGHTING GROUP, CENTURY HOUSE, SHAFTESBURY AVENUE, LONDON, W.C.2

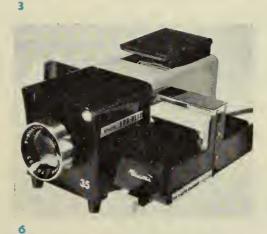




















Edixa Subminiature camera, 39s PHOTOPIA

2 Brownie 127 camera outfit for beginners (camera, case and two films). 37s KODAK

5 Halina Rolls 35-mm, camera with anastigmat lens, 119s 6d SILBER

8 11-12-11 (1-44-1) office 104-14

KEY TO MANUFACTURERS, p. 287

3 Olympus "pen" camera in seasonal pack. Five models. 336s to 651s PULLIN

6 Minette Eva-vision projector, 184s 9d; autochanger, 77s JCL 4 Multiblitz colour flash unit. 776s PHOTOPIA

**7** Halimat automatic projector for 2  $\times$  2-in. slides, 252s SILBER

9 Recursio Consmiss compare questo with huile in

#### INFORMATION FOR MANUFACTURERS

Retailer Audit Service. — Grampian Television (viewing area: North and East Scotland) have appointed Sales Research Services to provide retailer-audit panels for chemists, grocers and confectioners. Consumer research facilities are available on either a continuous or an ad hoc basis. The Grampian area is claimed ideal for test marketing, piloting launches of new products and for any marketing operation that requires accurate measurement of sales or sales potential but low promotional costs.

Granular Aspirin. — Successful research work has enabled W. J. Bush & Co., Ltd., Ash Grove, Hackney, London, E.8, to utilise a new method for producing granular aspirin. The new material is to be known as acetylsalicylic acid, B.P., Fre-Flo No. 7. It is a true granule, is claimed to be of a better colour than similar preparations that are available and produces tablets that are "cleaner and whiter." Tablets made from the material are hard without being brittle but at the same time disintegrate better than those prepared with the material that it supersedes.

A Story of Commonwealth Expansion.—The story of the expansion of the Laporte Industries group of companies into Canada, Australia and India was told in a Commonwealth issue of Laporte News. The editorial discussing the future of the Commonwealth points out that in the 1930's, when B. Laporte, Ltd., was a relatively small chemical concern based at Luton, there was already a far-sighted policy regarding Commonwealth development: its first step was the construction of a hydrogen peroxide plant at Botany. New South Wales, Australia.

Marketing Consultants.—Jones, Trueman and Associates, Ltd., have established themselves at 54 Richmond Road, Twickenham, Middlesex, as marketing consultants able to advise on all aspects of international trading, with an agency service for handling advertising and publicity, market research and public relations. The marketing division also provides, where required, an autonomous sales department (field, administrative and secretarial staff working alongside or independently of a client's organisation). The company offers facilities and trained personnel able to offer advice on management problems. Subsidiary or associated companies abroad are in process of being formed.

Catalyst for Sulphuric Acid.—A new catalyst, 33-2, for sulphuric acid manufacture has been released for the general market by Imperial Chemical Industries, Ltd., after extensive proving runs in the company's own acid plants. Production of 33-2, which is a potassium moderated vanadium catalyst supported on a silica base, is at I.C.I.'s catalyst factory at Clitheroe, Lancs. Catalyst 33-2 has a "striking" temperature of 370–390° C. (40 degrees lower than that of other commercially available catalysts). It is claimed to show superior activity at all temperatures between 370° C, and 500° C, but particularly at temperatures below 450° C. This activity in the lower temperature range means that a high level of conversion

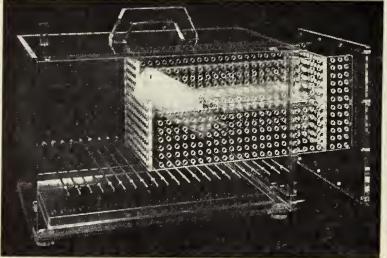
can be achieved with increases of up to 20 per cent, in acid production.

Bulk Handling of Sulphuric Acid.— In a new booklet "Bulk Transport and Storage of Sulphuric Acid," F. W. Berk & Co., Ltd., 8 Baker Street, London, W.1, claim that a well constructed and well maintained storage installation for sulphuric acid should have a life expectancy of at least fifteen years, and should prove an economical proposition when quantities in excess of 200 gall. a week are required. In addition to lower delivery charges, bulk storage generally results in easier distribution and control to process. The initial cost of a bulk storage installation is often found to have been recoverable within two years. The booklet outlines the physical and chemical idiosyncrasies of sulphuric acid and the best methods of meeting them. It makes recommendations for the design of a bulk storage installation that can be quickly and safely serviced through the compressor equipment mounted on delivery tankers, such as those used by the company on their bulk-delivery service. Safety precautions, storage capacity, cleaning and maintenance are amongst the other subjects covered.

Gelling and Suspending Agent. — F. W. Berk & Co., Ltd., Berk House, 8 Baker Street, London, W.1, have introduced a new gelling and suspending agent for water systems that will give good results without the use of high shear equipment. It is known as Ben-agel EW. Efficient gelation may be obtained merely by sprinkling or sifting dry Ben-a-gel EW into the required water system, with constant agitation by a conventional propeller-type mixer. It is a specially processed magnesium montmorillonite supplied as a soft milky-white granular powder. It is milky-white granular powder. It is recommended for thickening or gelling all water dispersions in a wide pH range, and as a suspending agent and mechanical emulsion stabiliser for oilin-water systems. Insoluble in water and not subject to microbiological degradation, the preparation is said to improve the "stability and working of preparations," particularly in hand cleaners, creams, etc., where the minimum absorption of lanolin, oils, etc., is desirable. In shampoos it would prevent excessive removal of oil. It may also be used to give controlled consistency under tropical conditions.

Door-to-door Freights to Europe.-A new door-to-door road and ferry service between the Eastern counties and Continental Europe has been inaugurated. Its object is to meet requirements of manufacturers and other producers in the Eastern Counties and the East Midlands, Norfolk based, and combining initiative and experience of the Pointer Group, Norwich, and Fast Freights (Road Haulage), Ltd., King's Lynn, the new service operates under the name Fastfrates. Felixstowe is its United Kingdom port and articulated vehicles are being used so that only the semi-trailer unit has to be shipped, another prime-mover taking over on the other side. Lower costs result from the reduced shipping space and from the continued availability for work of the prime-mover. International regulations are being complied with, so that there is no need for offloading or disturbance by Customs between Britain and the destination. The two companies have been providing a U.K.-to-Europe service independently of each other for some time. They will now benefit from the setting up of an office in Rotterdam earlier this year by Fast Freights (Road Haulage), Ltd., who have also registered themselves as a company in Holland.

A Versatile Foam Product. — A unique open-pore polyurethane has been introduced on to the British market by Declon Foam Plastics, Ltd., Cranbourne Industrial Estate, Potters Bar, Middlesex. Manufactured by the foam division of the Scott Paper Co., Chester, Pennsylvania, U.S.A., the foam has a three-dimensional structure in which open pores are created by the linkage of interconnecting polyurethane strands, The number of pores per lineal inch may be varied and maintained under close tolerances.





IN TRANSPARENT PLASTIC: The animal activity box illustrated, made in Perspex acrylic sheet by Visijar Laboratory Supply Co., Ltd., 149 London Road, Croydon, Surrey, for the Wellcome Foundation, Ltd., London, N.W.1, enables the response of animals to various stimuli to be fully observed.

## Order Now!

### ABIETSAN Hand Painted

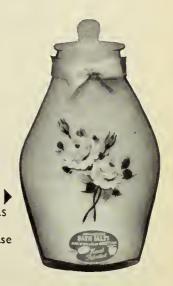
### ™ GIFTS FOR CHRISTMAS ™

Sure to Please

Finest Quality, **Most Elegantly Presented** 



PERFUMED BATH SALTS FEATHER CRYSTALS in Hand Painted Glass Flower Vase 5/II each



No. 195 PERFUMED BATH SALTS FEATHER CRYSTALS in Hand Painted Crystal clear Plastic Decanters 5/3 each



**PERFUMED** BATH SALTS FEATHER CRYSTALS in Hand Painted Plastic "Bunny"

3/4 each



No. 300 PERFUMED BATH SALTS FEATHER CRYSTALS in Hand Painted 5/4 Miniature Bottles

per box

No. 151 PERFUMED BATH SALTS FEATHER CRYSTALS in Hand Painted Glass Containers 4/2 each





No. 141

No. B24 CONCENTRATED
"BUBBLE BATH"
in Plastic Bottles /= each

SPECIALISTS IN HAND PAINTED PRESENTATIONS

Through your usual Wholesaler or direct. Made in

England by: THE ABIETSAN MFG. CO. LTD.

CONCORDIA WORKS · CARMICHAEL ROAD · LONDON S.E.25 · ENGLAND · Telephone : ADDiscombe 2261

## A-a-a-h! What a refreshing gift idea to put into 21 million heads!

Sorella's biggest-ever Christmas campaign opens November 14th; reaches 21 million readers! To skim the cream of quick and easy profits stock Sorella Bath Luxuries now—and set up your windows and counter displays early!

Radio Times
Woman
Woman's Own
Woman's Weekly
Woman's Realm
Woman's Mirror
The Tatler
Titbits
Today
The Lady
Queen
Country Life
Housewife

# National advertising in these journals

Modern Woman
She
Everywoman
Woman's Journal
Honey
Vanity Fair
Flair
Woman & Home
Woman & Beauty
My Home
Argus Women's
Journals
Good Housekeeping
Town



S.O.5. for Christmas—gay plastic peacock contains 6 perfumed bath tablets. In 3 colourways. 30/10 a dozen. P.T. 25%.



Ask for our complete illustrated catalogue of novelty gifts. Order now . . . from your wholesaler or direct.

Jean Sorelle Limited, 21-22 Turle Road, London, N.4.
Telephone: ARChway 6727 (P.B.X.) Telegrams: Promella-London, N.4.



SO.107. Proven favourite—Glass Apothecary Jar, amber, pink or blue, contains bubble bath powder. 51/5 a dozen. P.T. 25%. Retail 7/6.

SO.19A. Famous Sorella Champagne Bubble Bath; Jasmine, Pink Rose or Bouquet fragrances, in cut-out packs. Standard size for 6 baths. 39/5 a dozen. P.T. 25%. Retail 5/9. Other sizes: Retail 1/6, 2/11, 8/3, 12/11.





SO.106. Novelty Christmas Tree pack contains 3 miniature bottles one each perfume of Sorella Champagne Bubble Bath, 32/7 a dozen. P.T. 25%. Retail 4/9.



SO.24. Assorted Bath Cubes, Gardenia Dew, Devon Violets, English Lavender and Pine in gold acetate boxes of 12. 34/3 a dozen. P.T. 25%. Retail 5/-. Also in boxes of 6, assorted or single perfumes; 18/10 a dozen. P.T. 25%. Retail 2/9.

MAKERS OF THE ORIGINAL CHAMPAGNE BUBBLE BATH

#### B.D.H. IN THE IRISH REPUBLIC

#### Eighteen months of progress and development

SINCE The British Drug Houses, Ltd., established a factory at Santry, Dublin (see C. & D., March 17, 1962, p. 295), they have made considerable progress

they have made considerable progress. The factory's Swedish-tiled façade, impressive modern entrance lounge with its prize-winning mural of Irish life, French grey décor of the offices and executive suites and the Youghal carpetings of contemporary design will be supplemented by an additional embellishment this Summer, when 300 choice floribunda roses planted in beds on the lawns around the entrance last year come into full bloom. The floral display was the idea and contribution of the general manager and director (Mr. W. P. Mullen, M.P.S.I.).

The factory's teething-trouble stage is now over, and production is moving smoothly and fast for both home and export trade. A return visit by the writer showed an establishment well in production. Specialities now in production include Radiomulsin, Ferbelan (made from start to finish by Irish hands). Other proprietary products manufactured at Santry are Dilosyn, Dehydrocholin, Anorvit and Multivite. The equipment installed caters for the processes of mixing, tableting, coating, emulsifying and packaging. The resources of the parent company in London are available for quality control of both raw materials and finished pro-

ducts, and samples for testing can be in the analytical laboratories in London in a matter of hours.

Mr. William P. ("Bill") Mullen had a good grounding in retail pharmacy before going into the manufacturing side. He was manager of the Hayes, Conyngham & Robinson pharmacy at Dalkey, co. Dublin, when he took over the B.D.H. in Ireland two decades ago. He is also one of the elders of the Irish Chemists' Golfing Society. The

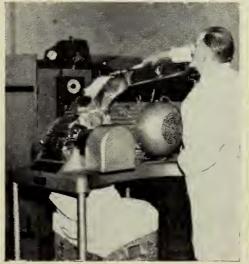
factory manager (Mr. D. T. Lewis) comes from the parent organisation in Britain. An Irish pharmacist (Mr. J. F. Prendergast) is factory chemist, and two other members of the Pharmaceutical Society of Ireland (Messrs, Charles McDermott and Thomas J. O'Connor) are medical and pharmaceutical representatives. Almost 100 per cent. of the containers, packaging materials and printing used at the works is procured in the Republic, Chairman of the Irish company (Mr. H. Treves Brown, B.Sc.) is well known to Irish pharmacists who attend the British Pharmaceutical Conference.





Left: Operatives engaged in liquid filtration. Right: Filling and capping Radiomulsin.







Left: Checking ingredients in a planetary mixing machine, Centre: Feeding granules into a tableting machine, Right: Manufacture of Ferbelan.







Left: A section of the general offices seen from the entrance hall. Centre: Mr. William P. Mullen (general manager and director) in his office, Right: The entrance lounge with part of the prize-winning mural on the right.

ART OF PHOTOGRAPHIC

M.B.

pp. 47, illus.,

4s. 6d.

#### **BOOKS FOR PHARMACISTS**

Books in the following tables may usefully find a place on the pharmacist's bookshelf.

pp. 88, illus.,

FITTING OF TRUSSES

(second ed.)

AND ELASTIC HOSIERY

SALESMANSHIP			8s. 6d.	HANDBOOK OF CURRENT	TONKIN, R. D.	H.E.B.	pp. 256, 21s.
ELEMENTS OF RETAILING	Lock, F.	W.C.	7s. 6d.	DRUGS	, 10		
(for first year assistants)			00 40 51	INTERNATIONAL		P.P.	
ORGANISATION OF	Lock, F.	W.C.	pp. 82, 10s. 6d.	PHARMACOPŒIA			
RETAILING AND STOCK-KEEPING (for				VOL. I			35s.
second-year assistants)				VOL. II			35s.
PROFIT AND PERSONALITY	HARRIS and SPENCER	B.P.	pp. xiii + 193,	SUPPLEMENT			25s.
IN RETAILING			36s. 3d.	MATHEMATICS AND	Saunders, L., and	P.P.	pp. $x + 275$ ,
RETAIL BUDGETARY	THORNTON, N.	B.P.	pp. x + 166,	STATISTICS FOR USE IN	FLEMING, R.		27s. 6d.
CONTROL AND COSTING			35s. 10d.	PHARMACY, BIOLOGY			
RETAILERS' GUIDE TO	BAGNALL, K. R. and	J.	pp. 135,	AND CHEMISTRY			
TRADING LAW	WALL, J. A.		12s. 6d.	MERCK INDEX OF		T.M.	pp. xi + 1641,
(second ed.) RETAIL PHARMACISTS'	Edited by	G.N.	pp. xiv + 397,	CHEMICALS AND DRUGS			with diagrams,
HANDBOOK (second ed.)	Moss, H. G.	G.14.	45s.	(seventh ed., 1960)		MED	pp. xvi + 1907
UNIT STOCK AND STORE	DENNETT, H.	B.P.	pp. 224,	MERCK MANUAL		M.S.D.	60s.
CONTROL	1		41s. 3d.	(tenth ed.)		MCD	pp. ix + 1624,
				MERCK VETERINARY		M.S.D.	72s. 6d.
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WOI	RKS OF REFER	ENCE		NEW AND NON-OFFICIAL		P.M.	pp. 849, 30s.
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1962	Jones, T. E.	1	pp. 771, 553.	PHARMACEUTICAL		M.B.	pp. 1139 ,40s.
ANALYST'S POCKET BOOK	Majer, J. R.	В.	pp. 110,	FORMULAS, VOL. I VOL. II		M.B.	pp. 952, 42s.
			17s. 6d.			P.P.	pp. xii + 576,
THE ART OF DISPENSING		M.B.	pp. 504, illus.,	PHARMACEUTICAL POCKET BOOK		1.1.	30s.
(twelfth ed.)	<b>{</b>	D	21s.	A PHARMACOPŒIA FOR	ROSSIGNOL, J. N. LE.	F.F.	pp. $xv + 207$ ,
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OF MEDICAL TERMS		WI.D.	17s. 6d.	PREPARATIONS			
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OF SYNONYMS			8s. 6d.	PRACTICAL PHARMA-	BECKETT, A. H. and	Α.	pp. viii + 378,
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HANDBOOK	Edual I.	CIT	27s. 6d.	QUANTITATIVE			
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#### KEY TO ADDRESSES OF PUBLISHERS

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LANGER, M. D.

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  - P.M.=Pitman Medical Publishing Co., Ltd., 46 Charlotte Street, London, W.1
  - S.O.=H.M. Stationery Office, York House, Kingsway, London, W.C.2
  - T.M. = Thomas Morson & Son, Ltd., Wharf Road, Ponders End, Enfield, Middlesex (Agents for Merck & Co., Inc.)
  - W.C. = William Chudley & Son, Ltd., 11 Holloway Street, Exeter, Devon.
  - I.P. = Interscience Publishers Division, John Wiley & Sons, Ltd

#### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, SEPTEMBER 11: All markets were relatively quiet during the week.

A number of dealers in Brazilian MENTHOL and PEPPERMINT OIL have withdrawn quotations pending clarifi-cation from origin of the effect on the mint crop of the huge forest fires reported in the Parana district of Brazil.

Among CRUDE DRUGS, ERGOT reflected a weaker market at source and spot and shipment prices were reduced by three-halfpence and twopence a pound respectively. Holders of ACONITE and Curação ALOES stocks shaded their prices a little. Buchu was firmer on the spot tending to move into line with forward replacement quotations. Holders of Mozambique Calumba Root increased their quotations by 5s. per cwt. Styrax was easier in both positions. A feature of Aromatic SEED quotations was the continued firmness of CUMIN and ANISE.

Among ESSENTIAL OILS the c.i.f. price of ANISE fell by threepence per lb. and some changes were reported in CITRONELLA quotations.

PHARMACEUTICAL CHEMICALS were mostly unchanged.

#### **Pharmaceutical Chemicals**

ACETANILIDE. — Crystals, one-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.

ALUMINIUM SULPHATE.—B.P.C. in 1-cwt. sacks, 1s. 9d. per 1b.

Ammonium bicarbonate.—B.P. powder £54 10s. per ton; Carbonate, £83 10s. for lump and £87 10s. for powder. All in 1-cwt. free kegs.

Ammonium Chloride. — One-cwt. lots B.P. powder, 105s. per cwt.; technical grade, 55s.

Ammonium sulphate. — One-cwt. lots 10d. per lb. for B.P.C. grade.

BENZYL BENZOATE. — B.P. in 1-ton lots, 4s. 6d. per lb.

BISMUTH AMMONIUM CITRATE is 55s. per lb. and sodium tartrate, 35s.; oxide, 26s. 10d.; oxychloride, 27s. 3d.

BISMUTH SALTS.—Prices (per lb.):

Quantity		28 lb. 1 cwt	wt.	5 cwt.			
CARBONATE		s. d	 d. 0	s. 19	d. 6		
SALICYLATE SUBGALLATE SUBNITRATE	••	20 19 18	 3 0		- - 6		

Brucine. — Per oz. alkaloid is 7s. and ULPHATE, 6s.

CAFFEINE. — ANHYDROUS and MONOHY-PRATE for 50-kilo lots and over, 28s. 1d. per kilo; citrate, 20s. 11d.

CALAMINE.—Five-cwt. lots, 1s. 10d. per b.; 1-ton, 1s.  $8\frac{1}{2}$ d.

Cantharidin. — Per oz. 222s. 6d. for -oz. lots.

CHARCOAL. — Medicinal activated, B.P.C. n 1-cwt. lots, £22 10s. per cwt.

CHLORAL HYDRATE. — One-cwt. lots s. 1d. per lb.

CHLOROCRESOL.—Pharmaceutical quality, s. 7d. per lb. (1-cwt. lots).

Chloroform.—1-cwt. lots in winchesters, s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, s. 2½d. and 3s. 4d. per lb. respectively.

chlorophyll. — Water-soluble, 100 per ent. (medicinal grade), 280s. per lb.; oil oluble, 25s. per lb.

Chrysarobin.—Per kilo, 5-kilo lots, 150s.

Chloroxylenol. — B.P., 5s. 8d. per lb. for 1-cwt. lots; 5s. 3d. per lb. for 1-ton lots.

CITRATES.—Per kilo:—

	(	50 1	cilos	250	kilos	1,000 kilos			
SODIUM†		s. 5	d. 4	s. 4	d. 10	s. 4	d. 8		
POTASSIUM† IRON AND		5	7	5	1	4	11		
AMMONIUM*	اا	8	5	8	1	7	10		

†Powder 6d. per kilo more. \*Scales 1s. 10d. per kilo more.

Cream of tartar.—Home trade:—Oneton lots, 241s. per cwt., 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4-cwt., 244s.; 1-cwt, 245s. (If supplied in bags deduct 5s.)

DICOPHANE (DDT). — One-ton 2s.  $4\frac{1}{2}$ d. per lb.

Digoxin.—100-gm. lots, 58s. per gm.

Ergometrine.—Maleate, B.P., 144s. per gm. for 20-gm. lots; tartrate, 27s. 6d. per gm. for 100-gm. lots.

ETHER. — Per lb. in winchesters: B.P. TECHNICAL, B.S.S., 5-cwt., 2s. 9d.; (4s. 4d. per litre). In drums the price is 2s. 1d. per lb. ANÆSTHETIC, B.P., 6-cwt., 3s.  $11\frac{1}{2}$ d.; 10-cwt., 3s.  $7\frac{1}{2}$ d.

FORMALDEHYDE.—B.P. solutions, 5-drum lots, 710s. per ton in free drums, delivered.

GLUCOSE. — Medicinal, B.P., POWDER, 66s. 6d. per cwt.. delivered in 1-ton lots. 1-4 cwt., 69s.; 56-lb. bags, 36s. Liquid, basic price, 48s. 6d. cwt.

Guaiacols. — Liquid B.P.C., 16s. per lb., for 1-cwt. lots; Crystals, 15s. 9d.; CARBONATE, 18s.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheeles from 3s. 10d. to 4s. 9d.

Hypophosphites.—Per kilo:—

Quantity	1 kilo	12.5 kilos	50 kilos		
Calcium, B.P.C	s. d.	s. d.	s. d.		
IRON, B.P.C	34 10	33 7	32 5		
MAGNESIUM MANGANESE, B.P.C.	29 3	28 2	27 2 32 9		
POTASSIUM, B.P.C.	23 1	22 5	21 4		
Sodium, B.P.C.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 18 1	17		

lodoform.—Powder (per kilo), 55s. 3d. in 50-kilo lots; less than 50-kilos, 56s. 9d. Crystals are 6s. 6d. per kilo more.

1RON SALTS-GLUCONATE, B.P.C., 4s. 9d. IRON SALTS—GLUCONATE, B.P.C., 4s. 9d. per lb. in 1-cwt. lots; SULPHATE, B.P., crystals, 1-cwt. 70s. per cwt.; 5-cwt., 65s. per cwt.; granular, 2s. 6d. per cwt. extra. Phosphate, B.P.C., 28-lb., 4s. 5d. per lb.; 1-cwt., 4s. 2d. oxide red precipitated, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; Carbonate, Saccharated, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s.—ammonium citrate, 250-kilos, 8s. 1d., kilo.—quinne citrate, 2s. 4d. per oz. in 100-oz. tin.

ISOPRENALINE SULPHATE.—One-kilo lots, 530s. per kilo; 5-kilos, 510s. per kilo.

Lactates. — Calcium, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; Calcium sodium, 4s. 9d. and 4s. 10d.

MANDELIC ACID.—One-cwt. lots, 12s. 6d. per lb. Calcium salt also 12s. 6d. Sodium mandelate, 13s. and Ammonium MANDELATE 50 per cent. solution, 7s. 6d.

MERCURY DERIVATIVES .- Per kilo, under 50-kilo lots-Ammoniated Mercury, B.P., lump or powder, 51s. 6d.; PERCHLORIDE, B.P.C., powder, 43s. 9d.; SUBCHLORIDE, (calomel), B.P.C., 50s. 6d.; OXIDES, yellow, B.P., 51s. 9d.; red B.P.C., 1949, 54s.

PARACETAMOL.—Ten cwt. to 1-ton lots, 10s. 6d. per lb.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 9d.

PHENAZONE. — Imported, 9s. 6d. per lb. PHENOLPHTHALEIN.—One-cwt. 9s. per lb.

PHOSPHORIC ACIDS. — B.P. (s.g. 1'750) is from 1s. 4d. to 1s. 8d. per 1b. as to quantity. B.P. 1914, 1s. 2d. to 1s. 6d. per 1b. Hypophosphorous, B.P.C., in winchesters is from 7s. 5d. to 8s. 6d. per 1b. as to quantity: drums, 7s. per 1b.; 50 per cent. acid in drums, 8s. 9d. per 1b.

PHYSOSTIGMINE.—Per oz. for 4-oz. lots: Alkaloid, 476s.; salicylate, 321s.; sul-PHATE, 411s.

PILOCARPINE.—In 1-kilo lots prices are: hydrochloride, 1,375s. per kilo; nitrate 1,128s.

PIPERAZINE.—Less than 50 kilos are: ADIPATE. 19s. 3d. per kilo; CITRATE, 18s. 6d.; HEXAHYDRATE, 14s.; PHOSPHATE, 20s. 6d.; TARTRATE, 19s. 6d.

ROCHELLE SALT.—Powder or granulated, 5-cwt. lots or over in kegs, 220s. per cwt.; 1-cwt. 222s. 6d. (bags less 5s.).

SACCHARIN.—B.P. powder 1 lb. and over 15s. 6d. per lb. Sodium salt, B.P., 14s.

SALICYLAMIDE. - One-cwt., 6s. 3d. per lb., 5-cwt., 5s. 11d.

SALOL.—B.P.C., 9s. per lb. (1-cwt. lots). Santonin.—5-kilo lots, 320s. per kilo.

STREPTOMYCIN.—BASE OF SULPHATE, 9d. per gm. Same prices for DIHYDROCHLORIDE,

STRYCHNINE. — 100-oz lots; ALKALOID, 10s. per oz.; SULPHATE and HYDROCHLOR-1DE, 9s.

SULPHOCARBOLATES.—SODIUM PHENOSUL-PHONATE, B.P.C., 1949 (powder), 12s. 10d. per kilo in 50-kilo lots and crystals, 12s. 2d. per kilo. ZINC, B.P.C., 1949 is quoted at the same rate.

TERPIN HYDRATE.—Less than 12½ kilos, 11s. 6d. per kilo.

THEOBROMINE. — ALKALOID from 31s. to 36s. 6d. per kilo as to quantity;—CALCIUM SALICYLATE from 34s. 6d. to 39s. 6d. per kilo; and—SODIUM SALICYLATE, 31s. 6d. to 36s. 6d.

Theophylline.—12½kilo lots; alkaloid anniydrous, 32s. 3d. per kilo and B.P., 33s. 3d.; aminophylline, 29s. per kilo, 12½ kilos; 31s. per kilo.

THIOGLYCOI LIC ACID. — Basic rates per lb., 97-98 per cent., 26-lb. packs, 15s.; 75 per cent., 11s. 6d. Ammonium thioglycollate, 40 per cent. ph 9 3 (24-lb. pack), 6s. 8d.; Monoethanolamine thioglycollate, ph 9 9, 4 per cent., 9s. 10d. All carriage paid and subject to purchase tax.

THIOUREA.—Technical grade, 1-cwt. lots, 3s.  $1\frac{1}{2}$ d. per lb.; 10 cwt., 2s.  $9\frac{1}{2}$ d. per lb. THYMOL.—One-cwt. lots are 11s. 3d. per

UREA.—Pharmaceutical grade, £59 15s. per ton in 1-cwt. bags non-returnable; technical quality, £41 5s. per ton (4-ton

Crude Drugs

ACONITE. - Spot. Spanish napellus, 2s. 8d. per lb.

AGAR. — Kobé No. 1, 12s. 3d. per lb. in bond; September shipment, 12s.  $1\frac{1}{2}$ d., c.i.f.

ALOES. — Spot primes, 245s. per cwt. shipment, 235s., c.i.f. Curação, spot, 310s.; shipment, 300s., c.i.f. ALOES. -

ANISE. — Chinese STAR, 180s. per cwt., spot, duty paid; shipment, 135s., c.i.f.

Arrowroot.—St. Vincent from 1s. 3d. to 1s. 6d., as to grade.

BALSAMS. — Per lb.: CANADA: Spot. 19s. 6d. to 22s. 6d. COPAIBA: B.P.C. grade, 10s. Peru: Spot. 8s. 6d., duty paid. Tolu: B.P., from 10s. 6d. to 32s. 6d.

Belladonna.—Herb, 2s. 3d. per lb., duty paid. Roor, testing over 0.5 per cent., 1s. 9d. per lb.

Benzoin.—Sumatra block, spot £18 10s. to £35 per cwt. as to quality.

Buchu. — Spot, 4s. 3d. per lb.; shipment, 4s. 3d., c.i.f.

Calamus,—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CALUMBA ROOT.—Mozambique in bond, 85s. per cwt.

CAMPHOR. — B.P. powder nominally 4s. 9d. per lb. in bond. No c.i.f. offers.

Capsicums. — East African on stalk, 150s. per cwt.; Ethiopian, 145s.

CARDAMOMS.—Aleppy greens, 10s. spot; shipment 10s., c.i.f. Sceds, spot 13s. 6d.; shipment 12s. 3d., c.i.f.

Cascara. — Spot, 260s. pcr cwt.; new peel for shipment 240s., c.i.f.

Cassia.—Fistula, spot cleared; forward 105s. per cwt. landed: lignea (whole), for prompt shipment, 195s., c.i.f.; selected broken, 185s., c.i.f.

CHERRY BARK. — Thin natural, 1s. 8d. per 1b.; shipment, 1s. 7d., c.i.f.

CHILLIES.—Zanzibar, 170s. spot; shipment, 160s., c.i.f. per cwt. Mom spot, 185s.; shipment, 135s. 6d., c.i.f. Mombasa

Cinchona.—Druggist's bark, San Tome broken quills (t.a. 843 per cent.) 1s. 10½d. per 1b. ex wharf. Tanganyikan chips, 1s. 7d. to 1s. 8d. as to test.

CINNAMON QUILLS.—Shipment (c.i.f. per lb.), 4 O's, 7s. 7d.; single O, 6s. 11d.; seconds, 6s. 5d.; quillings, 5s. 3d. All nominal nominal.

CLOVES.—Zanzibar spot, 2s.  $10\frac{1}{2}$ d. per lb. standard grade; shipment, 2s. 7d., c.i.f.

COCHINEAL. — Canary Isle black-brilliant nominal; silver-grey 16s. per 1b. Peruvian silver-grey, 13s. 6d.

Cocillana. — Bark, 2s. per 1b. on the spot.

COLOCYNTH PULP.—Spot and shipment

— Portuguese, 8s.  $7\frac{1}{2}$ d. per lb. ERGOT. spot and 8s. 4d., c.i.f.

GINGER.—(Per cwt.) African, spot about 350s.; shipment, 270s. per cwt. Jamaican No. 3 spot, 775s. Cochin, 295s.; shipment, 310s., c.i.f.

JUNIPER BERRIES. — Italian, 140s. per cwt.; German, 145s. spot.

KARAYA. — No. 1 gum, spot nominal; No. 2, 325s. per cwt.

KOLA NUTS. — African,  $5\frac{1}{2}$ d. spot and  $4\frac{1}{2}$ d., c.i.f. (per lb.).

Lanolin. — Anhydrous B.P. is from 170s, to 190s. per cwt. in 1-ton lots delivered free drums.

LEMON PEEL.—Spot, 1s. 6d. to 2s. 3d. per lb. according to quality.

LINSEED. — Whole, 72s. 6d. per cwt.; crushed, 110s.

LIQUORICE. — Natural root: Russian, 65s. per cwt.; Anatolian, 57s. 6d.; Persian, 52s. 6d.; Anatolian decorticated, 170s.; Sicilian 1-kilo bundles, 1s. 8d. per lb. Block juice: Anatolian 210s. per cwt.; Italian stick from 400s. to 475s. per cwt.

MACE.—Whole, pale blade, 15s. per 1b.; shipment, 14s., c.i.f.

MALEFERN.—Root for shipment quoted at 75s. per cwt., c.i.f.

MENTHOL. — Chinese: spot, 39s. per lb. duty paid; September—October shipment, 34s., c.i.f. Brazilian, 23s. 6d. in bond; shipment, 23s. 6d., c.i.f. Formosan, 27s. 6d. in bond; shipment, 26s., c.i.f.

Mercury. — Spot ex warehouse is £58 per flask of 76 lb.

Nutmegs.—West Indian 80's, 8s. 3d. per lb.; defectives, 6s. 6d. East Indian for shipment: 80's, 6s. 4½d.; 110's, 6s. 3d.; defectives, 4s., c.i.f.

Nux vomica.—Cochin, 75s. per cwt. on the spot.

Orange Peel. — Spot; Sweet ribbon, 1s. 8d. per lb.; bitter quarters; West Indian, 10½d.; Spanish, 1s. 4d.

PAPAIN. — For shipment: East African white, No. 1, from 37s. 6d. to 40s. per

PEPPER.—White Sarawak spot, 2s. 84d. to 2s. 11d. per lb.; shipment, 2s. 8d., c.i.f. Black Sarawak spot, 2s. 3d.; shipment, 1s. 114d. Black Malabar, 320s. per cwt. spot; shipment, 280s., c.i.f.

PIMENTO. — Spot quoted at 728s. per cwt.; shipment, 580s., f.o.b.

Podophyllum.—Spot, per cwt.; *Emodi*, 240s.; new crop for shipment, 230s., c.i.f.; *Peltatum*, 365s. spot.

Pyrethrum. — Extracts—partially waxed, 25s. per cent. pyrethrins, 74s. 6d. to 65s. 6d. per lb.; decolorised dewaxed, 20 per cent., 66s. 6d. to 59s. 4d. per lb.

Quassia.—Spot, 57s. 6d. per cwt.

QUILLAIA.—Spot, 170s. per cwt.; shipment, 130s., c.i.f.

RAUWOLFIA.—C.i.f. (per lb.). Canescens, 6s. 6d.; Serpentina, 12s. 6d., both nominal.

RHUBARB. — Chinese spot cleared; no shipment offers.

SAFFRON. — Mancha superior about 200s, per lb. spot.

SARSAPARILLA. -- Jamaican native spot, 2s. 11d. per lb.; shipment, not offer-

SEEDS. — (Per cwt.). ANISE.—Spanish, 280s., duty paid. CARAWAY.—Dutch quoted at 160s., duty paid. CELERY. — Indian quoted at 195s.; shipment, 145s., c.i.f. CORIANDER.—Moroccan quoted at 62s. 6d., duty paid; shipment, 55s. 6d., c.i.f. CUMIN.—Firm, Iranian, 195s., duty paid; shipment, 160s., c.i.f. Indian, 190s. DILL. shipment, 56s., cum.—Film, framan, 1938., duty paid; shipment, 160s., c.i.f. Indian, 1908. DILL.—Indian, 77s. 6d., spot; shipment, 56s., c.i.f. Fennel.—Indian, 125s., spot; shipment, 110s., c.i.f. Fenugreek.—Moroccan easier at 52s. 6d., duty paid; shipment, 38s. 6d., c.i.f. MUSTARD.—English, 45s. to 70s., according to quality.

SENEGA. — Spot, 15s. 6d. per lb.; new crop for shipment, 15s., c.i.f.

SENNA. — (Per lb.) Tinnevelly LEAVES, spot: Prime No. 1, 2s. 3d.; prime No. 2 1s. 9d.; No. 3, f.a.q., 1s. 4d. Pods: handpicked. August delivery quoted at 3s. 3d. x wharf. Alexandria pods: Hand-picked from 4s. to 8s.

SHELLAC.—F.O.T.N., 192s. 6d. per cwt.; No. 1, 207s. 6d.; F.O., 225s. to 275s.

SQUILL - Spot supplies cleared; new crop 125s, per cwt., c.i.f.

STRAMONIUM.—Continental LEAVES 85s. per cwt. spot.

STYRAX.—Spot, 21s. per lb.; shipment, 20s. 6d., c.i.f.

Tonquin Beans.—Para spot, 5s. 4d. per lb.; shipment, 4s.  $10\frac{1}{2}$ d., c.i.f.; Trinidad, 7s. 6d., spot.

TRAGACANTH.—No. 1 ribbo per cwt. No. 2, £165, spot. 1 ribbon about £175

TURMERIC. — Madras finger 150s. 6d. per cwt.; shipment, 132s. 6d. to 137s. 6d., per cwt. according to seller.

Valerian Root. — Spot; East European, 175s. per cwt.; Indian, 175s. Shipment: Continental, 172s. 6d. to 205s. 6d.

Vanillin.—Rates (per lb.) are now:—5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s.; small quantities, 22s. 6d.

Waxes. — (Per cwt.): Bees'.—Dar-es-Salaam. spot. 445s.; shipment, 422s. 6d., c.i.f. Abyssinian, spot, 390s., in bond; shipment, 385s., c.i.f. Candelilla, spot, 465s.; forward, 460s. landed. Carnauba, fatty grey, spot, 285s.; shipment, 275s., c.i.f.; prime yellow, spot, 800s.; shipment, 775s., c.i.f.

WITCH HAZEL LEAVES.—Spot quotations are 2s. 7d. per 1b.

#### **Essential and Expressed Oils**

Almond. — Sweet, English expressed, 9s. 6d. per lb.; foreign, 7s.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

- Chinese, 17s. per lb., spot; Anise. shipment, 16s., c.i.f.

BAY. — West Indian about 25s. per lb. on the spot.

BIRCH TAR.—Rectified, 8s. per lb.

CADE. - Spanish, 2s. 6d. per lb. for drum lots.

CALAMUS. — Spot, about 56s. per lb.; shipment, 38s. per lb., c.i.f.

CAMPHOR, WHITE. — Chinese, 2s. 7d. duty paid, per lb.; shipment, 1s. 9d., c.i.f.

Caraway.—1mported oil, 34s. per lb.

CITRONELIA. — Ceylon spot, 9s. 3d.; shipment, 8s. 10½d. per lb., c.i.f. Formosan, 9s., in bond: September–October shipment, 7s., c.i.f. Chinese, September–October shipment, 7s. 4d., c.i.f.

- B.P. is 11s. 6d. per gall. COD-LIVER. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

CUMIN.—English distilled oil, 130s. per lb.; imported, 90s.

Dill.—Imported, 31s. per lb., spot.

EUCALYPTUS.—B.P. 5s. 9d. and 6s. 3d. per lb. on spot for 70-75 and 80-85 respectively.

FENNEL.—Spanish sweet, spot, 10s. per

GERANIUM.—Bourbon, 90s. to 100s. per lb. on the spot.

GRAPEFRUIT.—Spot offers from 18s, per

JUNIPER, — B.P.C. 1949 oil is from 13s. 6d. per lb. JUNIPER WOOD, from 5s. LAVANDIN.—From 12s. 6d. to 15s. per lb. as to quality.

LAVENDER. -- French spot, 30s. to 40s.

per lb. as to quality.

LAVENDER SPIKE. — Firm. Spi12s. 6d. per lb. for original drums. Spanish,

Lemon.—Spot Siciian 52s. 6d. per lb.; shipment nominally 53s. per lb., c.i.f.

Orange.—Floridan sweet oil, 7s, per lb. nominal; shipment, 5s, 3d., c.i.f. South African and Rhodesian, 8s.; West Indian, 10s.; Spanish, 15s, to 17s, 6d., spot.

PATCHOULI. — Penang is 21s., duty paid and 18s., c.i.f., per lb.

Petitgrain. — Paraguay, 18s. per lb., spot; shipment, 17s. 6d., c.i.f.

ROSEMARY.—Spanish genuine is 9s, 6d. per lb. spot.

Sandalwood. — Spot Mysore, 107s. 6d., per lb.; forward, East Indian, 107s. 6d.,

VETIVERT.—Bourbon spot, 85s. to 105s. per lb.; shipment, 95s., c.i.f.

YLANG-YLANG. — Best oil quoted about 145s. per lb.

#### UNITED STATES REPORT

NEW YORK, SEPTEMBER 10: Higher prices for the third quarter of 1963 are scheduled for some basic chemical items which have been depressed. One company has announced refined GLY-CERINE will be increased by 2 cents per lb., effective October 1. Higher prices are already in effect for Italian MER-CURY, raised by about \$11 per flask Price developments in ESSENTIAL OILS and Aromatics include a reduction of 10 cents in spot prices for GRAPEFRUIT OIL and a lower shipping price for LEMONGRASS OIL from India. The CRUDE DRUG market is quiet. Very little volume reported and prices held unchanged for the most part.

#### PRINT AND PUBLICITY

PRESS ADVERTISING

ANDRE PHILIPPE, LTD., 71 Gowan Avenue, London, S.W.6: André Philippe perfumed hairlacquer. In the Stage and Television Today, Amateur Stage and Drama,

CONTINENTAL COSMETICS, LTD., 88 Fonthill Road, London, N.4: Jordan tooth-brushes. In mass circulation women's magazines.

EASIPOWER APPLIANCES, LTD., 30 High Street, Southampton: Dreamland electric blankets. In mass circulation Sunday newspapers,

ERNEST JACKSON & Co., LTD., Crediton, Devon. Throaties pastilles. In Daily Mirror, Daily Express, Daily Herald, Glasgow, Daily Record and Belfast Telegraph.

LTD., Oakley Road, Southampton: EUCRYL. Eucryl to:let, medicinal and household products. In national Press.

EVANS MEDICAL, LTD., Speke, Liverpool: Feen-amint. In Midlands and Northern editions of *T.V. Times* and leading national daily newspapers.

WILLIAM FREEMAN & CO., LTD., Staincross, Barnsley, Yorks: Suba-seal hot-water bottles. In mass-circulation women's magazines and provincial newspapers.

GENATOSAN, LTD., 12 Dcrby Road, Loughborough, Leics: Sanatogen selected multivitamins. In

national Press.
GOLDEN, LTD., Berkeley Square House, Berkeley Square, London, W.1: L'Oreal hair bleach, In Woman, Woman's Own, Woman's Mirror and Honey. Elnett hair spray. In Woman, Woman's Own, Flair, Honey, She, Vanity Fair, Modern Woman and Woman and Beauty. Color-Match. Woman, Woman's Journal, Realm, Modern Woman, Everywoman, Woman's Own, Woman & Beauty, Sunday Express, Daily Mirror and Sunday Mirror. Color-Glo hair colouring. In women's maga-

THOMAS GUEST & CO., LTD., 92 Carruthers Street, Ancoats, Manchester, 4: Sure Shield throat lozenges. In News of the World, The People and Sunday Mirror.

INTERNATIONAL CHEMICAL Co., LTD., Chenies Street, London, W.C.1, Tramil tablets. In travel magazines.

KENNETH WESTON MARKETING SERVICE, LTD., Granary House, Burton-on-Trent: Yestamin, In Radio Times, London Evening News and provincial evening newspapers.

IVO M. LECHNER-ITALIAN LABORATORIES, LTD., 33 Newman Street, London, W.1: Misslyn and Nuovissimo products, In Vogue, Flair and

Honey, LENTON PRODUCTS, LTD., Grove Road, Lenton, Nottingham: Yales nylon elastic hosiery, In national Press.

DISPLAY MATERIAL

COW & GATE, LTD., Guildford, Surrey: Point-ofsale display material, showcards and display units for Cow & Gate baby products.



DISPLAY AND "DISPENSER": Show material offered by Schick Safety Razor Overseas Co. (distributors: Richards & Appleby, Ltd., York House, Westminster Bridge Road, London, S.E.1, includes the two examples illustrated. A dispenser" pack for the Schick Krona stainless double-edge blade contains five blades. For people preferring to buy a month's shaving at a time the smaller Schick three-pack continues available. For the Schick injector shavers the packs are mounted on the display card, and each injector pack has a rear vault for used blades

#### COMMERCIAL TELEVISION

Figures in these columns represent number of appearances of the "spot" during the week.

September 22-28			London	Midland	North	Scotland .	Wales	South	Z.E.	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is.	W.&N.Wales
Anadin			4	4	_	-	_	_	5	1	4	1	1	_	—	_	_
Andrews liver salt	•••	• • •	_	—	_	_	1	_		1	_	—	_	_	_	_	_
Askit powders and tablets	•••	•••		_	_	14	_	_	—	_	_	_	7	_	_	_	_
Beecham powders	• • •	•••	5	5	4	4	4	4	4	4	6	4	4	7	_	_	—
Bisodol	•••	• • •	_	—	—	_	2	_	—	2	_	_	—	_	_	_	_
Cuticura products	•••	• • •	2	3	_	_	-	_	_	_	_	_	_	_	_	_	_
Delrosa rose hip syrup	• • •	•••	2	1	—	—	—	_	—	_	2	—	—	—	_	_	_
Delsey toilet tissues	•••	•••	_	_	_	_	_	_			1	_	_	_	_	—	_
Dentu-creme	• • •	•••	—	—	_	_	1	_	_	_	1	1	1	_	_	1	1
Derma Fresh hand-lotion	• • •	•••	1	1	1	- 1	1	1	—	1	—	1	_	—	—	-	—
Dinnefords magnesia	• • •	• • •	—	_	1			1	_	_	_	_	_	—	_	_	_
Esotone vitamin tablets	•••	• • •	4	—	—	—	_	_	_	_		—	_	_	_	_	_
Euthymol tooth-paste	• • •	• • •	1	_	—	_	—	-	—	-	_	_	_	_	_	_	_
Freezone	•••	• • •	—	1	_	_	_	_	_	_	_	_	_	_	_	_	_
Germolene	• • •	• • •	_	4	1	_	_	_	_	_	_	3	_	_	_	_	
Get Set hair-spray	•••	• • •	2	2	1	2	_	2	_	1	_	_	_	_	_	_	_
lotion	•••	• • •		_	_	_	1	_	—	—	_	1	_	_	_	_	_
Imperial Leather soap	• • •	• • •	3	2	_	2	4	3	3	3	2	2	3	2	_	_	_
Ingram shaving cream	• • •	• • •	_	2	—	_	_	—	_	_	_	_	_	_	_	_	—
Le Rouge Baiser lipstick	•••	• • •	_	_	_	_	_	_	_	—	—	_	_		_	1	—
Loxene shampoo	•••	• • •	_	1	_	_	_	_	_	_	_	_	_	_	_	_	
hair cream		• • •		2	_	_	_	_	_	_	_	_	—	_	—	_	
Macleans tooth-paste	• • •	• • •	4	6	5	5	9	3	_	5	5	8	7	5	_	_	_
Magiclean	•••	•••	_	_		_	_	_	_	_	_	_	_	_	_	4	
Milk of Magnesia tablets	•••	•••	2	1	1	2	1	2	2	2	3	2	5	2	_	3	1
Moorland tablets	•••	•••	2	1	1	_	1	2	2	2	2	—	_	_	_	_	_
Phyllosan	•••	•••	_	3	_	_	_	_		_	_	_		_	_	_	_
Rinstead pastilles	• • •	•••	1	1	1	2	2	2	1	2	2	_	2	_	_	1	_
Sctlers	•••	•••	3	3	2	_	—	_	_	_	2	3	_		_	_	_
Velvet toilet tissues VO5 conditioner	•••	• • •	3			_		3	_	_		_	_				
hair emean	•••	•••	1 2	1	1	I	1	1			_	1					_
Oh ommo o o	•••	•••	_	2 2	2 2	2 2	2	2	_	1	_	3	_		_	_	_
snampoo	•••	• • •	1	2	2	2	1	1	_	1		2				_	_

ERNEST JACKSON & Co., LTD., Crediton, Devon. Easi-sell counter display units for Throaties pastilles.

EVANS MEDICAL, LTD., Speke, Liverpool: Sellout containers and display material for Feena-mint.

C. & J. Field, 225 Bath Road, Slough, Bucks. Showcard, test and display material for Together perfume.

LTD., Chenies INTERNATIONAL CHEMICAL CO., Street, London, W.C.1, Point-of-sale display material and leaflets for Tramil tablets,

STAFFORD-MILLER, LTD., 166 Great North Road, Hatfield, Herts: Display pack for Dentu-creme.

#### COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, September 15

READING BRANCH, PHARMACEUTICAL SOCIETY. Motor rally starting from outside the factory of Gillette Industries, Ltd., Basingstoke Road, at 2.15 p.m.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY.

Mystery car run, starting from Navestock
Heath, Romford, at 2.30 p.m.

Monday, September 16

ENFIELD CHEMISTS' ASSOCIATION, Enfield Arms hotel, Enfield, at 7.45 p.m. Film evening. ROMFORD BRANCH, PHARMACEUTICAL SOCIETY Unicorn hotel, Gidea Park, Essex, at 7,45 p.m. Dr. G. F. Somers (Dista Products, Ltd.), on "The Pharmacological Assessment of New Drugs."

Tuesday, September 17
Doncaster Branch, Pharmaceutical Society, Ivanhoe hotel, Sprotborough, Doncaster, at 8.15 p.m. Soirće.

DUDLEY AND STOURBRIDGE BRANCH, PHARMACEU-TICAL SOCIETY, Stourbridge institute and social club, Market Street, Stourbridge, at 8 p.m. " A General Grumble Evening."

INTERNATIONAL CONGRESS ON THE HISTORY OF PHARMACY, Rotterdam, Holland, Until September 21.

Wednesday, September 18

LIVERPOOL CHEMISTS' GOLFING SOCIETY, Southport and Ainsdale golf club, Play for captain's prize.

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, Sale golf club, Sale, Ches. Play for president's prize and prize distribution.

MIDLANDS SECTION, SOCIETY FOR ANALYTICAL CHE-MISTRY, chemistry department, the University, Edgbaston, Birmingham, 15, at 3,30 p.m. Meeting on "Contributions to Analytical Chemistry by Younger Members of the Profession."
SOUTH LONDON AND SURREY PHARMACISTS GOLFING

SOCIETY, Shirley Park golf club, Addiscombe Road, Croydon, at 1 p.m. Play for founder's trophy and president's prize. At 7 p.m. annual meeting and support.

Thursday, September 19

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, College Green, Bristol, 1, at 7.30 p.m. Talk by a representative of the National Association of Salaried Pharmacists.

INSTITUTION OF CHEMICAL ENGINEERS, Royal Aero-Place, London. Hamilton nautical Society, W.1, at 5 p.m. Dr. T. J. Williams (Monsanto Chemical Co., U.S.A.) on "Progress in Chemical Process Control in America: Computers, Instrumentation and Applications."

Friday, September 20

FOURTH BRITISH CONGRESS ON THE HISTORY OF MEDICINE AND PHARMACY, Nottingham University. "Evolution of Pharmacy in Britain." Until September 23,

Saturday, September 21

GERMAN SOAP FAIR, Berlin, Until September 24.

#### **Advance Information**

PORTSMOUTH COLLEGE OF TECHNOLOGY, PHAR-MACY AND PHYSIOLOGY DEPARTMENT, PAST STU-DENTS' ASSOCIATION, Kimbells' Corner House, Commercial Road, Portsmouth, at 7.30 p.m. Annual reunion dinner, October 9. Details from Mr. N. Francis, Rossiters, Stein Road, Southbourne, Emsworth, Hants.

#### CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

CALCITONIN. Further evidence for. Lancet, September 7.

N-MFTHYLISATIN b-THIOSEMICARBAZONE, Prophylactic treatment of small pox contacts with Lancet, September 7.

INFLUENCE of different sources of therapcutic information on prescribing by general practitioners, *Brit. med. J.*, September 7.

Pattern of Prescribing in general practice,

Brit, med. J., September 7,

METHANOL in normal human breath, Science, August 16.

STREPTOMYCIN AND DIHYDROSTREPIOMYCIN, Sensitivity of cultured mammalian cells to. Science, August 16.

GATHERING PERIWINKIF for medicinals. Drug and Cosmetic Ind., August.

COLOGNES for men. Drug and Cosmetic Ind., August

PSYCHOTOMEMETICS. Central actions of. Nature, September 7.

LOCALISATION of anti-human growth hormone serum within the human placenta: Evidence for a human chorionic "growth hormone-pro-lactin." Nature, September 7. STERILITY TESTING OF BIOLOGICALS. Aust. J.

Pharm., June.

PAPER CHROMATOGRAPHY of some vitamins of the B-group, Aust. J. Pharm., June.

#### TRADE MARKS

#### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," August 28 For all goods (3)

AVON-A1RE, 833,097, by Avon Cosmetics, Ltd., London, N.W.1,

For all goods (5)

BIOPRO, 841,592, by Howard Lloyd & Co., Ltd., London, S.W.1. ETOMINE, 845,656, by Dr. A. Wander, S.A., Berne, Switzerland. Dr. A. Wander, S.A., Berne, Switzerland. ATOVERAN, 845,742, by Roche Products, Ltd., Welwyn Garden City, Herts.

For pills, being pharmaceutical preparations for human use (5)

Device including words DR. WILLIAMS PINK PILLS, B841,790, by G. T. Fulford Co., Ltd., Toronto, Canada, and Dr. Williams Medicine Co., Hatch End, Middlesex.

For tonic preparations containing honey and milk (5)

CHEMOTHEUTICS HONEYMILK, by British Chemotheutic Products, Ltd., Bradford. Yorks

For pharmaceutical preparations for veterinary

PREDNIVET. 846,210, by Willows Francis, Ltd., Epsom, Surrey.

For pharmaceutical preparations and substances, all being in tablet form (5)

FRANGS, 846,878, by J. Waterhouse & Co., Ltd., Ashton-under-Lyne.

For medicines for human beings and animals (5) TAD1P, 850,669, REDUL, 850,757, by Farbenfabriken Bayer, A.G., Leverkusen 22c, Germany

For disinfectants; preparations for killing weeds and destroying vermin; fungicides, insecticides and nematocides (5)

NURELLE, 850,678, by Dow Chemical Co., Midland, Michigan, U.S.A.

For photographic and cinematographic cameras and lenses; (3) photographic and cinematographic

MERCURY, 840,929, by B. Bennett & Sons, Ltd., London, W.1.

For cinematographic projecting apparatus, cinematographic cameras and cinematographic film (9) PATHFINDER, 842,104, by Promavia, Ltd., London, S.W.1.

For photographic and cinematographic apparatus

and instruments, and parts and fittings (9)
ARTRONIC, 847,629, by Yamato Koki Kogyo,
K.K., Ohta-Ku, Tokyo, Japan,
For photographic, cinematographic and optical

apparatus and instruments, and parts and fittings

ROBICA, 850,088, by Wedding Photo Co, (London), Ltd., London, N.W.3,

For vaccinators, hypodermic injectors and syringes; and parts and fittings (10)

AGRIMATIC, 843,489, by Pfizer, Ltd., Sand-

For foodstuffs for use in the breeding of poultry and game birds (31)

H. V. Breeders, B813,520, by Vitamins, Ltd., From the "Trade Marks Journal," September 4 For chemical products for use in agriculture, horticulture and torestry; manures (natural and artificial) (1)

GARDONA, 841.664, by Shell International Petroleum Co., 1.td., London, S.E.1, or photographic chemical preparations (1)

BROL, 846,740, by May & Baker, Ltd., Dagenham, Essex.

For chemical products used in industry; and chemical products for use in determining the degree of hardness of water (1)

TESTOMAT, 848,400, by Gebruder Heyl Chemische Fabrik, K.G., Hildesheim, Germany. For all goods (I)

KNAPENITE, 848,763, by British Knapen, Ltd., Marlow, Bucks, MIGLYOL, 849,083, by Chemische Werke Witten, G.m.b.H., Witten/ Ruhr, Germany,

For manures and fertilisers (1)

LOVELY COTTAGE, 849,073, by Bccs, Ltd., Liverpool, 2,

For perfumes, non-medicated toilet preparations, toilet articles, preparations for the hair, soaps and dentifrices (3)

PLIX, 836,427, by L'Oreal, Paris, France. For perfumes, perfumed soap, non-medicated toilet preparations, cosmetics and non-medicated

preparations for the teeth and hair (3)
Device with word EXTRAVAGANT, 843,058. by Karlsruher Parfümerie-und Toiletteseifenfabrik F. Wolff & Sohn, G.m.b.H., Karlsruhe,

For perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, shampoos, soaps and essential oils (3)

WAIKIKI, B844,510, by Cussons Sons & Co., Ltd., Manchester, 7.

For all goods (3)

MIGLYOL, 849,084, by Chemische Werke Witten, G.m.b.H., Witten/Ruhr, Germany.

For pharmaceutical preparations and substances human and veterinary use (5)

SORALPHANE, 842,335, EPRALEX, 844,807, by CIBA, Ltd., Basle, Switzerland, For pharmaceutical products for the treatments

of the veins and capillaries (5) VENOCAP, B842,340, by Zyma, S.A., Nyon,

Switzerland, For pharmaceutical preparations and substances

(5)TRANCORIN, 842,730, by Sterwin, A.G., Zug,

Switzerland.

For preparations for killing weeds (5)

CURBISOL, 848,407, by J. W. Chafer, Ltd., Doncaster, Yorks.

For deodorants, medicated preparations for the treatment of the skin and scalp, and pharmaceutical preparations in the nature of shampoos for the removal of dandruff (5)

SL1XENE, 842,774, by S. Hunton, Ltd., Burnley. Lancs.

For preparations for medicinal and curative purposes for oral administration, all contained in plastic containers; disinfectants, inhalants and breath deodorants (5)

SOF-FRESH, B843,395, by Universal Laboratorics, Ltd., Sandwich, Kent.

For pharmaceutical and veterinary preparations

PRIMADE, 843,594, by Trevor Edmund Thomas Weston, London, N.6, TRILA 847,190, by Pfizer, Ltd., Sandwich, Kent, TRILAM-T,

For all goods, but not including toilet paper or any goods of the same description (5)

SIL-KIN1, 844,114, by MacDonald & Taylor, Ltd., Ashton-under-Lync, Lancs. For pharmaceutical preparations for the treatment

PSERIDERM, 845,753, by Michael, Jonathan & Co., Ltd., London, W.1.

For sanitary towels, sanitary tampons, sanitary

panties, and sanitary belts (5) CURVELLE, 846,121, by Kimberly-Clark Cor-

poration, Necnah, Wisconsin, U.S.A. For all goods (5) MIGLYOL, 848,613, by Chemische Werke PLANOTHANE, 849,567, by May & Baker, Itd., Dagenham, Essex.

For dietetic foods for infants and invalids (5) BUITONI, B849.039, by S.p.A., Gio & F. Lli, Buitoni Sansepolero, Sansepolero (Arezzo), Italy,

For medicated biscuits being dietetic foods for use in slimming (5)

NITA, 849,099, by Lloyd Rakusen & Sons, Ltd., Lceds, 7.

For disinfectants, preparations for killing weeds and destroying vermin; fungicides, insecticides and nematocides (5)

TORSITE, 850,679, by Dow Chemical Co., Midland, Michigan, U.S.A.

#### **PATENTS**

#### COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," September 4

Anti-foaming composition and therapeutically active tablets containing same, Stuart Co, 939,446.

Process for the preparation of a therapeutic ex-tract of taraxacum dens leonis and pharmaceutical compositions thereof, L. Lafon, 939,735,

Therapeutic and cosmetic preparations containing pelargonic acid or its salts in combination with a perfume, S. M. Peck. 939,923.

Manufacture of derivatives of 5-nitrofuran, Norwich Pharmacal Co, 939,941.

Activated earths, Fullers' Earth Union, Ltd.

Derivatives of pyrimido-(4,5-d)-pyrimidines and the preparation thereof, Karl Thomae, G.m.b.H, 939,512.

Sulphonyl ureas. The British Drug Houses, Ltd. 939.516.

Amino pyrazoles, Sandoz, Ltd. 939,901. Sulphonamide, Sandoz Patents, Ltd. 939,468.

Sulphapyrimidines. Farbenfabriken Bayer, A.G. 939.608.

Pyridine derivatives, Farbenfabriken Bayer, A.G. 939.947.

Decolorisation of monosodium glutamate, Commercial Solvents Corporation, 939,573,

Production of α-hydroxybenzyl-penicillin, Beecham Research Laboratories, Ltd. 939,708.

Process for the preparation of tetracycline anti-

biotics. Icar Industria di Ricera e Produzione del Farmaco, S.p.A. 939,476.

Process for preparing a penillic acid and salts thereof, Bristol-Myers Co. 939,905,

Process for the manufacture of pregnadienes. C1BA, Ltd. 939,510.

Steroids. Lepctit, S.p.A. 939,349.

△1-unsaturated steroids and process for preparation. American Cyanamid Co, 939,820.
Process for the aromatisation of ring ring

939,903. steroid compounds. Sankyo Co. Steroid hormone ester, CIBA, Ltd. 939,574. Dithiophosphonic acid esters. Farbenfabril

Farbenfabriken Bayer, A.G. 939,946, Aminoresins useful for protecting organic materials from micro-organisms. CIBA, Ltd. 939,614.

Cover means for absorbent pads and the like.
Robinson & Sons, Ltd. 939,677.
Dispensing closure, C. R. Jennings. 939,462.
Syringe. Kenneth Castiglione, Ltd. 939,896.

Case for a razor set, Philip Morris, Inc. 939,748.
Colour photographic materials, Kodak, Ltd. 939,795

Photographic copying apparatus, Kodak, Ltd. 939.691. Photographic camera, Robot Foto, G.m.b.H,

939.345. Photo sensitive paper developing device, S. Mita.

939,808.

Method and apparatus for assessing and printing colour negatives. Ilford, Ltd. 939,818.

Photographic materials, Ilford, Ltd. 939,357.

Processing of sheet film. Kelvin & Hughes, Ltd. 939,598,

Photographic silver-halide emulsions, 11ford, Ltd. 939.360.

magenta colour couplers, Agfa, Non-diffusing A.G. 939,904.

Photographic layers suitable for the silver dye-stuff bleaching process. CIBA, Ltd. 939,906. British patent specifications relating to the above

will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lanc, London, W.C.2, from October 16.

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Millions of women put their confidence in Mene. The sales figures prove it. Mene is the super luxurious, extra absorbent sanitary towel that's so comfortably soft.

Women tell each other about Mene reliability and superb quality, and advertisements in the mass circulation women's magazines will repeat the story, time and time again, to potential Mene users everywhere. Put your confidence in Mene too. Stock, display and sell Mene!

#### **\*SPECIAL DISCOUNTS FOR YOU**

You may obtain a special discount of from 5% to 10% on your order for Mene. Ask for details — now.

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SPECIAL BONUS OFFER UNTIL 30TH SEPTEMBER ONLY



Adult Linctus 2/9d & 4/9d

aromatic flavour. A favourite for many years, for the immediate relief of coughs, bronchitis and catarrh.

Junior Glucose Linctus 2/3d & 3/9d

The soothing children love to take. Quickly eases and relieves sore throats and coughs.



#### QUANTITY DISCOUNTS

For DIRECT ORDERS only. May also include Moorlands, Penetrol Products, Bunty Baby Products and Cetal Tablets.

£2. 10. 0 Less 21%

£7. 10. 0 Less 7½% £10. 0. 0 Less 10%

Supplied to CHEMISTS ONLY

Order NOW for extra profits!

W. B. CARTWRIGHT LTD., RAWDON, LEEDS,

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#### ANTIPEOL

Cutaneous Ointment containing the sterile broth filtrates of the microbes causing most skin infections.

#### OPHTHALMO-ANTIPEOL

Therapeutic Ophthalmic Ointment for the treatment of inflammatory conditions of the eye.

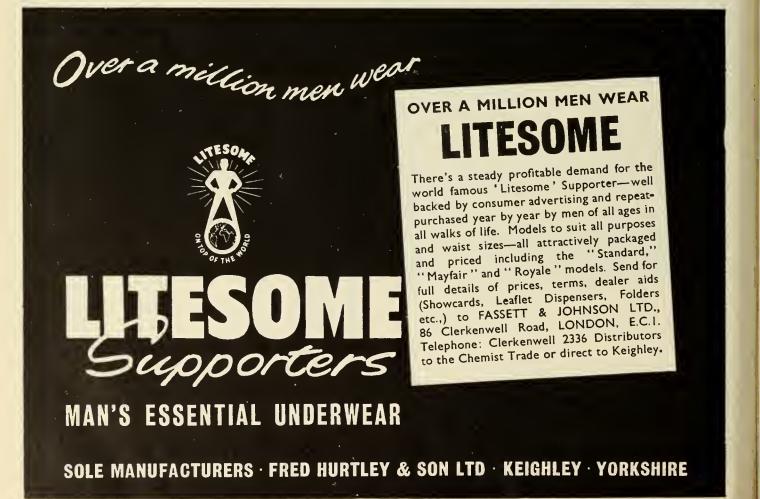
#### RHINO-ANTIPEOL

Prophylactic Nasal Cream; an effective remedy in infections of the naso-pharynx

MEDICO - BIOLOGICAL LABORATORIES LTD.



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## Rinoxin

The greatest advance in rodent control since Warfarin

- RINOXIN the most effective rat and mouse killer in the world!
- RINOXIN guarantees 100% success in killing rats and mice.
- RINOXIN is completely NEW, no other product is safer or cleaner.

Backed by full-Backed by fullpage advertising\* page advertising\* page advertising\* which will SELL to which will SELL to which will SELL to which will SELL to throughout farmers throughout the United Kingdom

#### WHY WARFARIN SOMETIMES FAILS

By a strange quirk of nature the systemic production of Vitamin K (the antidote to warfarin) is above normal in some rats and mice. These are the "hard-to-kill", warfarin-resistant rodents.

#### HERE'S WHY RINOXIN ALWAYS KILLS

Rinoxin not only contains the most effective known anti-coagulant but also SULPHAQUIN-OXALINE, which neutralizes the vitamin K thus giving the anti-coagulant a clear run and ensuring 100% success.

Rinoxin is manufactured under licence from the Wisconsin Alumni Research Foundation, U.S.A. Patent applied for. This formulation is marketed in U.S.A. as "Prolin", (Regd. U.S.A. t.m. of W.A.R.F.)

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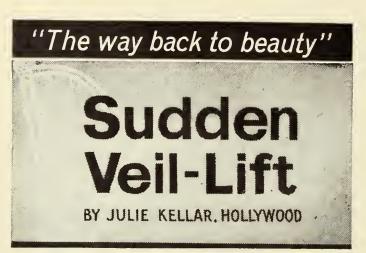
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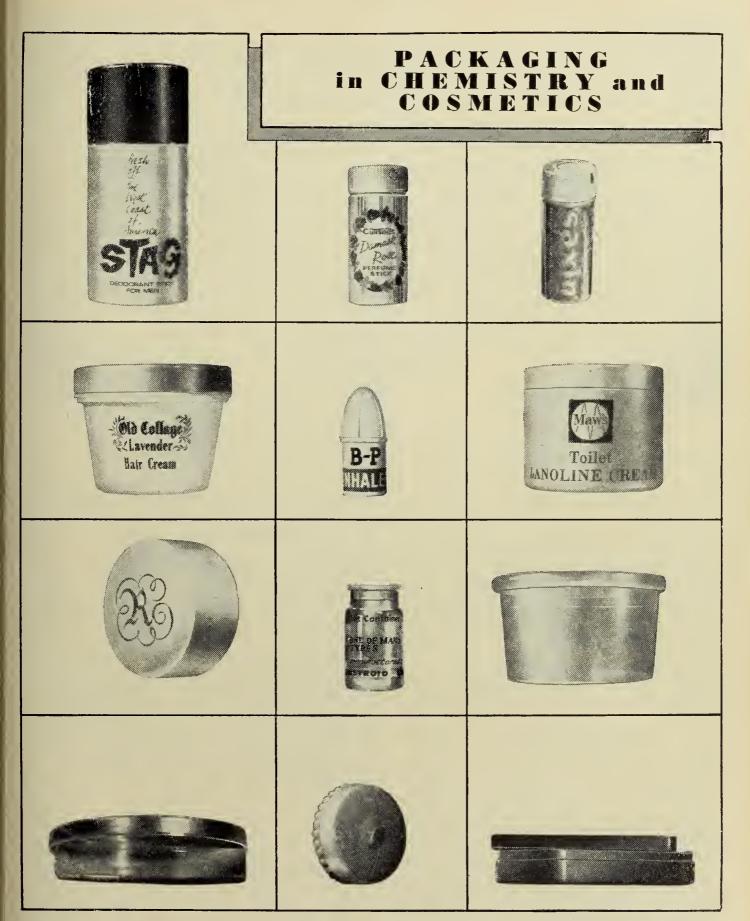
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On view Monday and Tuesday September 23rd and 24th.

Catalogues (price 1/-) of the Auctioneers, 15, Greek Street, London, W.1. (Gerrard 3244/5)

### Quarterly Price List SEPTEMBER ...

	disposable syringe	1	7 60	6ea 0ea	_	10	0	
	drenaline (971 PSMI solution		20	0	_	2	6	ts7
	"505" projector					399	0	
	"505" projector madis (Pierre Cardin madis (Pierre Cardin mfix (818 M&B)	n (366 De n (1475 Ce	endron oncord	e))			Ĭ	
	J Pak	1 gall	40	0ea	_	60	0	
ì	S. type hardener	450 mils 80 oz	56	0	_	7	0	
	injection 0.5% inthical (971 PSMB)	10 mils	48	0		6	0	
	lotion	4 oz	32	0	8 0	4	8	
	ampoules 2.5% intolia (1476 AC)	2 mils 10		0	_	8	6	†s7
	leaves	120 ISD)	6	3½ea	ı 8 <u>1</u>	ea 10	6	
9	ampoules 0.5 mil scabiol (971 PSMB)	25	47	6ea	_	71	3	
	emulsion trixo (1164 SSL)	4 oz	26	0		3	3	
	hand care	404 411	12 13	0 9	3 0 3 5	1 2	9	
		408	20	7	5 2	3	0	
	vomine (971 PSMB)	409	96	0	24 0	14	0	
	tablets 25 mgm and-Aid (672 Johnso butterfly closure 10		20	0	_	2	6	†s7
	arluze (89 Barluze)		24	0*	3 2	3	01	k
					s 3d. for			
	artex (477 AF&B) perfume spray, hand							
	size	No. 6 No. 7	8 9	0ea 1ea		a 13 ea15		
	revedil E (971 PSMB powder, ampoules	)						
	150 mgm multi-dose contain	10 ner	168	0	_	21	0	
	"M" ampoules 67 m	50 mgm gm 10	$\begin{array}{c} 74 \\ 148 \end{array}$	$\frac{0}{0}$	_	9 18	3 6	
	multi-dose contain	ner 35 mgm	56	0	_	7	0	
	ampoules 2 mils multi-dose contain	10	98	0		12	3	
		10 mils	40	0	_	5	0	
	anadian (288 Commer healing oil	ciai) 2 oz	24	0	6 0	3	6	
	apsolin (938 PD)	tube	24	0	6 0	3	6	
	arisoma (1441 Wallac compound tablets	ce) 50	90	0	22 6	13	2	ts4B
		250	428	ŏ	107 ŏ	62	5	ts4B
	ascade (818 M&B) photographic wetti agent	ng 500 mils	120	0		15	0	
	hlormytol (938 PD)							
	olntment	5 gm 15 gm	- 11	Sea 6ea	=	7 17	3	TS TS
	hloromycetin (938 Pl Kapseals 0.25 gm	D) 12	11	0ea	_	16	6	TS
	The proof of the gran	100	86	8ea	<del>-</del>	130 629	0	$\mathbf{T}\mathbf{S}$
		500 1000	419 836	6ea 0ea	=	1253	6	TS TS
	50 mgm (vet)	$\begin{array}{c} \cdots & 25 \\ 100 \end{array}$	5 18	6ea 4ea		8 27	3	TS TS
	cream	tube jar	$\frac{1}{2}$	Sea 2ea	_	4 24	0	TS TS
	ear drops	5 mils 100 mils	4	4ea 10ea		6 76	6	TS TS
	endotonic compound	l artridge	6	0ea	_	9	0	TS
	hydrocortisone opht mic drops		5	8ea	_	8	6	TS
	ointment	tube	3	4ea	_	5	0	TS
	intramuscular	2 gm	9	0ea		13	6	TS

anhthalmia 05 me	···· ···· · · · · · · · · · · · · · ·	0	1000			•	ma
ophthalmic 25 mg		2	10ea		4	3	TS
ointment Aplica	p 1% 50	5	0ea		7	6	TS
	250	24	2ea	_	36	3	TS
palmitate suspensi	on 60 mils	8	2ea	_	12	3	TS
pure	5 gm	16	6ea	_	24	9	TS
	25 gm	80	10ea	_	121	3	TS
	100 gm	301	10ea	_	452	9	TS
succinate	250 mgm	5	4ea		8	0	TS
	1 gm	8	8ea	_	13	0	TS
suppositories	6	8	0ea		12	0	TS
topical 5%	15 mils	5	8ea	_	8	6	TS
aerosol (vet)	tin	24	4ea	_	36	6	TS
colourless (vet)	tin	18	8ea		28	0	TS
Chlorstreptin (938 P)	D)						
Kapseals	12	9	6ea	_	14	3	TS
	100	75	0ea	_	112	6	TS
suspension	60 mils	12	2ea	_	18	3	TS
Crinx (1155 S&N)							
conforming ban	dage						
4 yds 2 in		9	0	_	1	2	
3 in		11	7	_	1	6	
4 in		13	5	_	1	9	
6 in		18	9	_	2	3	
Cyclonal (971 PSMB)	) sodium						
ampoules 0.5 gm	25	33	4ea	_	50	0 †	s1s4A
1 gm	25	46	Sea	_	70		s1s4A

### THIS WEEK'S CHANGES AT END OF LIST

	- 1: 1 (000 DATE)								
	Deakin's (360 D&H)	nalas.	1.5	^	0	111	_	_	
	cough and cold he inflammation remed		15 15	9	3	111 111	2 2	6	
	Dorothy Gray (385 DC		19	9	3	113	Z	0	
	Colour Drama	<b>'</b> )	58	0	14	6	8	6	
	soap	4 oz	32	0	8	0 -	4	8	
	Elastikon (672 Johnso		02	Ü	Ü	O		·	
Delete	elastic adhesive band		and 3 i	in					
	Embacoid (818 M&B)	-							
Insert	film cement	500 mils	108	0	_		13	6	
1,000,1	Entair (179 BDH)	000	100	Ŭ				•	
	capsules	30	11	2ea	2	93e	a 19	63	
	Euvitol (34 A&H)					-		~	
Insert	all packs								†s4B
	Faint Blush (60 Arden	)					12	6	
	Florineige (1254 UCS)								
	perfume								
	Fetiche animals	631,400	38		9	6	5	6	
	floral carded	631,800	33		8	3		11	
	flower	631,500	72	0	18	0	10	6	
	Fullers (1246 TP&T)		120	0	30	0	18	0	
	celery perles Gillette (514 Gillette)	••	120	U	50	U	10	U	
	razors								
	adjustable Mark	rr	87	4	21	10	12	6	
			21		5		a 37	6	
	Hexocil (1310 WW)								
Insert		veridge)							
	Hipsy (930 P&B)	, or range,							
Insert	Hipsy (451 F&J)								
	Johnsonplast (672 Joh	nson) zine	e ovide	e plast	er B	P.C.			
	flesh colour	incon, bin	0.2140	prase					
	1 yd	½ in	4	3	_			6	
		1 in	5	3	_			73	
	3½ yd	$\frac{1}{2}$ in	8	6	_		- 1	0	
		1 in	13				- 1	7	
	5 yd	½ iu	12	6			1	5 1	
		1 in 2 in	19 33	$\frac{0}{3}$			2	10	
		2 in 3 in	47	0	_		3 5	6	
	10 yd	$\frac{3 \text{ in}}{\frac{1}{2} \text{ in}}$	20	8			2	43	
	10 3 4	i in	32	ŏ	_		3	9	

then prescriptions call for INSULINS, supply

### WELLCOME

• SOLUBLE • LENTE • PROTAMINE ZINC • GLOBIN

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

2	SUI	PPLEMENT	то тне	CHEMIST AND DRUGGIST September 14	4,
	2 in 3 in	59 6 — 83 4 —	7 0	Poli-grip (1178 Stafford)	
	Johnsons (672 Johnson) cotton buds	8 8 —	9 9	(distributors 451 F&J) denture cream 12 oz 28 0 — 3 Delete Polyansyn (61 APC) ampoules	6
Delete	cream tube napkins powder large	14 5 3 27 8 6 1	7½ 2 0 1 3 9	Polylock (721 LC) small kit 37 9 9 5 5 Proctosody! (1087 Roussel)	6
Delete	soap		2 1 7	suppositories 12 108 0 — 13  Delete 6 and 48	6
Delete Add	chiropodists' felt N.H.S. me	dium 12 0 —	1 6	Pyridium (1310 WW) Insert (distributors 776 Loveridge)	ľ
Delete	dental floss 12 yd 24 yd pocket first-aid outfit	$\begin{array}{ccc} 9 & 6 & 2 \\ 14 & 6 & 3 \end{array}$	$\frac{4\frac{1}{2}}{7\frac{1}{2}}$ 1 6 7 2 6	Ratoids (937 Parisek)  Delete mouse crumbs  Delete red squill rat biscuits	ı
	protective pants small medium large	260 0 26	0 29 6 0 31 9 0 34 9	Ribena (103 BF) blackcurrant drink 18 oz 43 11 6 7½ 5 *Includes 3d for contai	3,
Insert	travel kit Karswood (895 NA&V)	44 0 —	5 6	Sanatogen (502 Genatosan) selected multivitamins 30 56 0 — 7	
	dog powders 8		z) 0 <b>2 3</b>	Savion (649 ICI) lozenges 12 13 9 3 5 2	0
	kennel pack Lady Caroline (1254 UCS) perfume	6 0ea 1	6ea 10 0	Schick (1054 R&A) blades stainless double-	
	with atomiser 633,500 Remous 11oz 633,200		6 14 11 6 18 6	edge dispenser . 5 24 7 6 2 3 Scotties (153 BSC) 50 two ply regular 26 1 — 1	6
Insert	Mannitol (837 MSD)			150 two ply economy $\begin{pmatrix} 3 & doz \\ 45 & 1 \\ (2 & doz) \end{pmatrix}$	9
	25% solution ampoules 50 mil Maws (810 Maw)	10 6ea —	15 9	200 two ply family $\begin{array}{cccccccccccccccccccccccccccccccccccc$	6
	teats small hole 300.00 medium hole 300.01	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9 9 9	Insert Seneschal (1124 Sen M) corn planes 22 6 5 7½ 3 Senokot (1324 Westminster)	1
	extra large hole 300.04 three holes 300.05	6 3 — 6 3 —	9	Delete Senpolin (1154 S&N) liniment	3
	Max Factor (813 MF) Coiffure Italienne Meldaire (833 Mel P)	41 4 9 10	0 6 0	<b>SH.420</b> (973 Pharmethicals) tablets 10 mgm 20 24 0ea — <b>Siestol</b> (859 Moore)	
	depilatory roll-on Neuva Maja (317 CS)		0 <b>5 6</b> 9}ea <b>13 6</b>		3
	1 <sup>3</sup> / <sub>2</sub> oz 3 <sup>1</sup> / <sub>2</sub> oz	11 0ea 2 9 18 6ea 4 7	9ea <b>20 0</b> 7½ea <b>33 6</b>		0
	$ \begin{array}{cccc} \text{perfume} & \dots & 1/7 \text{ oz} \\ & & \frac{1}{2} \text{ oz} \\ & & \frac{1}{2} \text{ oz} \end{array} $	20 9ea 5 2	6}ea19 0 2}ea37 6 1}ea65 0	tablets 500 92 6ea 23 1 lea 161 Spray 'N Stay (256 CPL)	10
	New Tress (525 Golden) $10^{\circ}$ 2 $10^{\circ}$ 2 New Tress (525 Golden)		0½ea <b>87 6</b> 3ea <b>119 6</b>	hairspray eeonomy size 16 oz 45 5 11 5 12 Stabillin V-K (147 Boots)	6
	wave set	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Stera-Fix (1037 Reckitt) 15 9 — 1	9
	Nilodor (1474 NRA) air freshener Nobecutane (436 Evans)	92 0 —	11 6	Sudden Veil-Lift (160 Bliss) facial mask (8 treat- ments) 36 0ea 9 0ea 63	0
	plastic dressing 50 mils 100 mils 300 mils	9 0ea — 15 0ea — 24 0ea —	13 6 22 6 36 0	Delete Suite 16 (Pierre Cardin (366 Dendron)) Insert Suite 16 (Pierre Cardin (1475 Concorde))	
	Nulon (1037 Reckitt) hand cream A Owbridges (925 Owbridge)	25 8 6 3	3 <b>6</b>	Sunset (1343 DW) TR III Speedlight flash unit	6
	new formula	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0½ 2 8 6½ 4 7	Sweet Sue (1412 Jackel)         perfumed sachets        17 0 4 3 2         Delete         15 6 3 104 2	6
Insert	Pacatal (1310 WW) (distributors 776 Loveridge) Pancrex (930 P&B)			Thermona (1154 S&N)	6
	powder 100 gm 500 gm 1000 gm	6 0ea — 25 0ea — 48 0ea —	9 0 37 6 72 0	**************************************	6
	Pancrex V (930 P&B) capsules 100	12 0ea —	18 0		0
	250 500 Paragen (54 Antigen)	28 0ea — 54 0ea —	42 0 81 0	Insert all packs	3
	tablets 0.5 gm 1000 PAS sodium (54 Antigen) cachets 1.5 gm 100	26 8ea — 12 0ea —	40 0 18 0		6
	500 Permaco (357 DS&H) Permaco (895 NA&V)	52 0ea —	78 0	Tricoid (818 M&B)  Insert film cement 500 mils 108 0 — 13  Trivax (208 BW)	6
110016	bullets (cattle) 12	345 6 — (½ doz)	72 0	ampoule 0.5 cc 1 20 0 — 2 (Tryptizol (837 MSD)	6
	(sheep) 50  Phospholine lodide (1106S)	360 0 — (½ doz)	75 0	syrup 4 oz 8 6ea — 12 9  Tylagel (378 Dista)  Insert	9 1
Insert	all packs  Phyllis Scott Lesley (1014 PSL) almond milk 2 oz		†s1	Urolucosil (1310 WW) Insert (distributors 776 Loveridge)	
	4 oz 8 oz	:: :: ::	15 2 22 9		1 0
	special oil 2 oz cover cream		28 0	Velouty (379 Dixor) 59 0 14 9 8 11	1
	magnolia creamy moisture lotion 2 oz 4 oz		22 9	powder cream jar 27 0 6 9 4 0  Delete jar 20 6 5 1½ 3 1  Wellcome (208 BW)	0
Delete	Roi Solaire 4 oz topaz herbal lotion 4 oz Pierre Cardin (359 DDD)		12 8	tetanus antitoxin 1,500 i.u. in 1 cc 10 194 0 — 24 3	3
Insert	Pierre Cardin (1475 Concorde) Pino Silvestre (529 Gorney)			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6
	eau de Cologne 50 100 200	66 0 16 6 114 0 28 6 16 0ea 4 0e		5 cc 126 0 — 15 9 1 in 100 1 cc 36 0 — 4 6 1 in 1.000 1 cc 36 0 — 4 6	6
	bath foam Please (895 NA&V)	<b>54</b> 0 <b>13</b> 6	8 6	1 in 10,000 1 cc 36 0 — 4 6 Wernets Dr. (1178 Stafford)	
	choc-drops for dogs	26 1 3 11 (2 doz) (2 doz)	1 8	denture powder 16 0 — 2 0	

Xylocaine (68 AH) eye drops 4%		6	6ea		9	9
gel tube Zo all sizes	15 mil	33	0	_	4	1 ½
Zonal (54 Antigen) salt	2 oz	16	0		2	0
Zonas all sizes						

#### ADDITIONS TO KEY TO SUPPLIERS

riuze) = BARLUZE (PRODUCTS) LTD., 2 Lovaine Avenue, hitley Bay, Northumberland. orney) = GORNEY, LTD., Cross Bath Road, Bramley, Leeds, 13. dsey 77221. el P) = MELDAIRE PRODUCTS, LTD., P.O. Box 2. Manchester

en M)=SENESCHAL MANUFACTURING CO., 109a Dartmouth ad, London, N.W.2. Gladstone 4187. (CS)=U.C.S. (LONDON), LTD., 39 Albemarle Street, London, W.1. de Park 2630. NRA)=N.R. AGENCIES, LTD., Harcourt Road, Bexleyheath, nt. Bexleyheath 1940. nt. Bexleyheath 1940. Noncorde)=CONCORDE PERFUMERY & COSMETICS, LTD., Rickmansworth Road, Watford, Herts. Watford 29251. C)=ANTOLIA COMPANY, Studio Six, 5 Kensington Church Street, ndon, W.8. Western 9334.

#### THIS WEEK'S CHANGES

NEW and altered entries notified for the first time A = Advanced. R = Reduced. Entries new this week are marked thus:-

Alberto Culver (1437 ACC) VO5 shampoo bottle
Aldomet (837 MSD)
injection
Alphosyl (1178 Stafford) 51 6 5 mils 22 cream . . . 60 s
Amplex (67 Ashe)
deodorant roll-on . . . spray-on . .
Analgesic balm (179 BDH) 60 gm 120 0 30 -0 17 2 15 0 3 2 Antussin (1239 Tobal) double strength  $\frac{40}{67} \\ 36$ 6600 chewable capsules
ehildren's
bellair (681 Kaputine)
lellair (1243 Topsy)
lond Street (1355 (Yardley)
Spray Mist de luxe
lrocillin (1393 BRL) tablets 125 mgm 24 125 mgm 20 250 mgm 24 160 20 0 TS 250 mgm 293 36 R TS lrovon (859 Moore)

pressurised with adaptor refill

pressurised complete . . refill . . . 14 11 3 6 6 0 96 adaptor ...

Broxil (1393 BRL) tablets 26 125 mgm 125 mgm 160 20 0 TS 250 mgm 250 mgm 293 16 91 7 4 floz 40 floz  $\begin{array}{c} 41\\360\end{array}$  $\frac{10}{90}$ 5 50 7 Dermalae (938 PD)
Dimol (376 Dimol)
(distributors 49 AF) 4 6 10 tablets  $\begin{array}{c} 10 \\ 18 \end{array}$ 10 9 6 7 13 In-O-Ge (1166 Southon) (distributors 1479 Wallis) Intersorb (1352 Wyeth) tablets (vet) . . . 50 quagesic (1352 Wyeth) tablets . . . . . 10 16 168 9 18 9 TS 18 sobactulin (1166 Southon) (distributor 1479 Wallis) soban (1166 Southon) (distributors 1479 Wallis) so-Col (1166 Southon) (distributors 1479 Wallis) so-Dex (1166 Southon) (distributors 1479 Wallis) ath de Fath (Jacques Fath) (distributors 331 C of C) all entries

● Flawless (256 CPL) Goddard (522 Goddard) Long-Term silver polish
3\frac{3}{7} \text{ oz}
7\frac{1}{2} \text{ oz} 6 31 **1**0ea 42 16 8 2 5 †  $0 \\ 0$ R adaptor
Delete Izal (890 NC & C)
Insert Izal (1480 Izal)
dustbin powder small 0 large bag 112 lb  $\frac{13}{24}$ | Delete | Jacques Fath (331 C of C) all entrics | Jergens (471 FB) | hand lotion | . . . . | 20 Jordan (327 WC) | Insert | Jordan (1372 CCL) | Jordan (1372 CCL) | Jordan (1372 CCL) | Jordan (301 Coty) | bath eubes | . . . . | 2073 | 20 Jordan (301 Coty) | bath eubes | . . . . . | 2081 | 20 Jordan (301 Coty) | bath eubes | . . . . . | 2081 | 20 Jordan (301 Coty) | bath eubes | . . . . . | 2081 | 20 Jordan (301 Coty) | bath eubes | . . . . . . | 2081 | 20 Jordan (301 Coty) | Jordan 30 6ea 20 10 2 11  $\frac{29}{29}$ 27 166  $18 \\ 110 \\ 534$ 100 10ea 500 1069 L'Origan (301 Coty) soap bath Melbrosia (588 H&H) 4-week treatment Melbroton (588 H&H) Merocets (638 MN) lozenges Monil (858 Monil) reducer 29 9 4 76 9 10 16 18 0 2 Corr. Corr.  $.\,12~\mathrm{oz}$ 72 0 8 0 †s4B soap bath
Myanesin (179 BDH)
elixir 1gm/15 mils 081 29 9 4 0 .. 8 oz 1 litre 18 27 53 | R | Newcadin (518 Glaxo) | Vaccine (vet) ... 50 mils | 12 | 6ea | 500 mils | 112 | 6ea | 500 mils | 112 | 6ea | 2 litres 35 6ea Delete 3 4 0 6 0 3 6 Delete Delete Delete Polly (890 NC &C)
Insert Polly (1480 Izal)
A Polycolor (721 LC)
Delete Poppet (890 NC&C)
Insert Poppet (1480 Izal)
Proxinol (67 Ashe)
safflower oil
Rexona (756 Lever) 6 0 3 6 † 32 2  $\dots \frac{1}{2}$  pt 76 6 8 1 soap 0  $\begin{pmatrix} 3 \operatorname{doz} \\ 42 & 3 \end{pmatrix}$ (3 doz) 10 4 (3 doz) 1 8 (3 doz) Add concentrate (all sizes)...

Add readimix (all sizes)...

Rubilex (466 FF) prices unchanged Scan (31 AP) †s4B †s4B  $\begin{array}{cc} 13 & 10 \\ 23 & 6 \end{array}$ Corr. bottle

Show Girl (1478 SBP)
cologne deodorant ... 6 oz
hair spray ... 8 oz

A Sucron (67 Ashe) ... 6 oz
Vaseline (256 CPL)
petroleum jelly
yellow ... jar
Delete Velvet (1275 VCP)
handkerchief tissues
pocket pack Corr. bottle 4 5 1  $\begin{array}{c} 30 \\ 19 \end{array}$ 2 1 pocket pack standard  $\begin{array}{c} 8 \\ 0 \\ 0 \end{array}$ 1 2 6 toilet tissue "jumbo" 20 rolls single double 1 6 2 11 size

Delete	Vitacoat (1284 V) Vitrex							
Insert			60	0	15	()	8	9
	Volitol (718 LAB)							
R		 500	58	0ea	14	6ca	92	0 †s4B
	Wallis (1479 Wallis)							
	junior aspirin tablets		9	0	$^{2}$	3	- 1	9
	Wander (1303 Wander) diabetic chocolate							
	milk assortment		$\frac{30}{14}$	5	4	6	3	9
	Wyness (1338 W&S)		14	6	2	2	- 1	10}
	Zal (890 WC&C)							-
Insert	<b>Za</b> l (1480 Izal)							

#### AMENDMENTS AND ADDITIONS TO KEY TO SUPPL (376 Dimol) = DIMOL LABORATORIES LTD., 34 Ludgate Hill, Lo

(376 Dimol) = DIMOL LABORATORIES LTD., 34 Ludgate Hill, LC E.C.4. City 6309.
Delete 890 NC&C = NEWTON CHAMBERS & CO., LTD.
(1243 Topsy) = TOPSY PHARMACEUTICALS LTD., Fountain Oldham, Lancs. Oldham Main 3045.
(1477 Elanco) = ELANCO PRODUCTS, LTD., Broadway House Broadway, London, S.W.19. Liberty 6600.
(1478 SBP) = SHOWGIRL BEAUTY PRODUCTS, 50 Greyhound London, N.15. Tottenham 0570.
(1479 Wallis) = WALLIS LABORATORY, LTD., Holywell Indonestate, Watford, Herts. Watford 21812.
(1480 Izal) = IZAL LTD., Thorncliffe, Sheffield. Ecclesfield 3171.



# INFORMATION DEPARTMENT is at your service

THE Information Department at 28 Essex Street, London, W.C.2, undertakes to give to subscribers the sources of supply of products within the pharmaceutical industry and to provide information on technical problems.

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